

Michelle Peckham

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88

papers

2,988

citations

31

h-index

53

g-index

108

ext. papers

3,459

ext. citations

6.3

avg, IF

4.97

L-index

#	Paper	IF	Citations
88	RNA-Seq analysis of a Pax3-expressing myoblast clone in-vitro and effect of culture surface stiffness on differentiation.. <i>Scientific Reports</i> , 2022 , 12, 2841	4.9	
87	Nanoscale Pattern Extraction from Relative Positions of Sparse 3D Localizations. <i>Nano Letters</i> , 2021 , 21, 1213-1220	11.5	0
86	Determining Protein Organisation within the Z-Disc Using 3D Super-Resolution Microscopy and Pattern Recognition Analysis.. <i>Microscopy and Microanalysis</i> , 2020 , 26, 128-129	0.5	
85	Actin Mutations and Their Role in Disease. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	13
84	Disease mutations in striated muscle myosins. <i>Biophysical Reviews</i> , 2020 , 12, 887-894	3.7	6
83	A restricted spectrum of missense KMT2D variants cause a multiple malformations disorder distinct from Kabuki syndrome. <i>Genetics in Medicine</i> , 2020 , 22, 867-877	8.1	17
82	A novel workflow for three-dimensional analysis of tumour cell migration. <i>Interface Focus</i> , 2020 , 10, 20190070	3.9	3
81	Myosin: Structure, Function, Regulation and Disease. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
80	Structure of the shutdown state of myosin-2. <i>Nature</i> , 2020 , 588, 515-520	50.4	18
79	Functional integrity of the contractile actin cortex is safeguarded by multiple Diaphanous-related formins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3594-3603	11.5	21
78	Exploiting nanobodies and Affimers for superresolution imaging in light microscopy. <i>Molecular Biology of the Cell</i> , 2019 , 30, 2737-2740	3.5	20
77	Dynamic ion pair behavior stabilizes single Ehelices in proteins. <i>Journal of Biological Chemistry</i> , 2019 , 294, 3219-3234	5.4	5
76	A1603P and K1617del, Mutations in ECardiac Myosin Heavy Chain that Cause Laing Early-Onset Distal Myopathy, Affect Secondary Structure and Filament Formation In Vitro and In Vivo. <i>Journal of Molecular Biology</i> , 2018 , 430, 1459-1478	6.5	2
75	Affimer proteins for F-actin: novel affinity reagents that label F-actin in live and fixed cells. <i>Scientific Reports</i> , 2018 , 8, 6572	4.9	24
74	Site-Specific Labeling of Affimers for DNA-PAINT Microscopy. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11060-11063	16.4	55
73	Persistent Replication of a Chikungunya Virus Replicon in Human Cells Is Associated with Presence of Stable Cytoplasmic Granules Containing Nonstructural Protein 3. <i>Journal of Virology</i> , 2018 , 92,	6.6	16
72	Ortsspezifische Funktionalisierung von Affimeren fñ die DNA-PAINT-Mikroskopie. <i>Angewandte Chemie</i> , 2018 , 130, 11226-11230	3.6	10

71	Visualisation and analysis of hepatitis C virus non-structural proteins using super-resolution microscopy. <i>Scientific Reports</i> , 2018 , 8, 13604	4.9	4
70	Determining Stable Single Alpha Helical (SAH) Domain Properties by Circular Dichroism and Atomic Force Microscopy. <i>Methods in Molecular Biology</i> , 2018 , 1805, 185-211	1.4	2
69	A tubulin alpha 8 mouse knockout model indicates a likely role in spermatogenesis but not in brain development. <i>PLoS ONE</i> , 2017 , 12, e0174264	3.7	17
68	3Rs and biophysics. <i>Biophysical Reviews</i> , 2017 , 9, 277-278	3.7	3
67	Cytoskeleton and Cell Motility 2017 , 166-180		
66	Characterization of long and stable de novo single alpha-helix domains provides novel insight into their stability. <i>Scientific Reports</i> , 2017 , 7, 44341	4.9	23
65	Alternative reagents to antibodies in imaging applications. <i>Biophysical Reviews</i> , 2017 , 9, 299-308	3.7	29
64	Affimer proteins are versatile and renewable affinity reagents. <i>ELife</i> , 2017 , 6,	8.9	103
63	Hypertrophic cardiomyopathy mutations in the calponin-homology domain of ACTN2 affect actin binding and cardiomyocyte Z-disc incorporation. <i>Biochemical Journal</i> , 2016 , 473, 2485-93	3.8	25
62	How myosin organization of the actin cytoskeleton contributes to the cancer phenotype. <i>Biochemical Society Transactions</i> , 2016 , 44, 1026-34	5.1	21
61	Promoting differentiation of cultured myoblasts using biomimetic surfaces that present alpha-laminin-2 peptides. <i>Cytotechnology</i> , 2016 , 68, 2159-69	2.2	3
60	TMEM107 recruits ciliopathy proteins to subdomains of the ciliary transition zone and causes Joubert syndrome. <i>Nature Cell Biology</i> , 2016 , 18, 122-31	23.4	81
59	A Combination of Diffusion and Active Translocation Localizes Myosin 10 to the Filopodial Tip. <i>Journal of Biological Chemistry</i> , 2016 , 291, 22373-22385	5.4	9
58	Construction of an instant structured illumination microscope. <i>Methods</i> , 2015 , 88, 37-47	4.6	22
57	The Inner Centromere Protein (INCENP) Coil Is a Single α -Helix (SAH) Domain That Binds Directly to Microtubules and Is Important for Chromosome Passenger Complex (CPC) Localization and Function in Mitosis. <i>Journal of Biological Chemistry</i> , 2015 , 290, 21460-72	5.4	46
56	Specific Myosins Control Actin Organization, Cell Morphology, and Migration in Prostate Cancer Cells. <i>Cell Reports</i> , 2015 , 13, 2118-25	10.6	60
55	Histone deacetylase 3 indirectly modulates tubulin acetylation. <i>Biochemical Journal</i> , 2015 , 472, 367-77	3.8	14
54	Myosin tails and single α -helical domains. <i>Biochemical Society Transactions</i> , 2015 , 43, 58-63	5.1	8

53	Structural implications of cardiac myosin heavy chain mutations in human disease. <i>Anatomical Record</i> , 2014 , 297, 1670-80	2.1	57
52	Stable single helices are constant force springs in proteins. <i>Journal of Biological Chemistry</i> , 2014 , 289, 27825-35	5.4	42
51	Dimerization of mammalian kinesin-3 motors results in superprocessive motion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 5562-7	11.5	98
50	Microtubule proliferation in right ventricular myocytes of rats with monocrotaline-induced pulmonary hypertension. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 56, 91-6	5.8	19
49	Cardiomyopathy mutations in the tail of cardiac myosin modify the coiled-coil structure and affect integration into thick filaments in muscle sarcomeres in adult cardiomyocytes. <i>Journal of Biological Chemistry</i> , 2013 , 288, 31952-62	5.4	21
48	Apolipoprotein(a) acts as a chemorepellent to human vascular smooth muscle cells via integrin $\alpha 5 \beta 1$ and RhoA/ROCK-mediated mechanisms. <i>International Journal of Biochemistry and Cell Biology</i> , 2013 , 45, 1776-83	5.6	13
47	Human congenital myopathy actin mutants cause myopathy and alter Z-disc structure in Drosophila flight muscle. <i>Neuromuscular Disorders</i> , 2013 , 23, 243-55	2.9	12
46	Coiled coils and SAH domains in cytoskeletal molecular motors. <i>Biochemical Society Transactions</i> , 2011 , 39, 1142-8	5.1	29
45	Local anesthetics inhibit kinesin motility and microtentacle protrusions in human epithelial and breast tumor cells. <i>Breast Cancer Research and Treatment</i> , 2011 , 129, 691-701	4.4	47
44	Imaging individual myosin molecules within living cells. <i>Methods in Molecular Biology</i> , 2011 , 778, 123-42	1.4	4
43	Modulation of cell spreading and cell-substrate adhesion dynamics by dystroglycan. <i>Journal of Cell Science</i> , 2010 , 123, 118-27	5.3	43
42	The SAH domain extends the functional length of the myosin lever. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 22193-8	11.5	64
41	A FERM domain autoregulates Drosophila myosin 7a activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 4189-94	11.5	83
40	Journal club. A cell biologist ponders an outstanding mystery in muscle formation. <i>Nature</i> , 2009 , 458, 1081	50.4	
39	When a predicted coiled coil is really a single helix, in myosins and other proteins. <i>Soft Matter</i> , 2009 ,	3.6	10
38	Engineering a multi-nucleated myotube, the role of the actin cytoskeleton. <i>Journal of Microscopy</i> , 2008 , 231, 486-93	1.9	38
37	6th Abercrombie symposium on cell motility. Introduction. <i>Journal of Microscopy</i> , 2008 , 231, 440	1.9	
36	Differential trafficking of Kif5c on tyrosinated and detyrosinated microtubules in live cells. <i>Journal of Cell Science</i> , 2008 , 121, 1085-95	5.3	168

35	Novel murine clonal cell lines either express slow or mixed (fast and slow) muscle markers following differentiation in vitro. <i>Developmental Dynamics</i> , 2008 , 237, 1412-23	2.9	4
34	Intranuclear rod myopathy: molecular pathogenesis and mechanisms of weakness. <i>Annals of Neurology</i> , 2007 , 62, 597-608	9.4	34
33	Targeted homozygous deletion of M-band titin in cardiomyocytes prevents sarcomere formation. <i>Journal of Cell Science</i> , 2006 , 119, 4322-31	5.3	66
32	Non-muscle myosins 2A and 2B drive changes in cell morphology that occur as myoblasts align and fuse. <i>Journal of Cell Science</i> , 2006 , 119, 3561-70	5.3	72
31	Cell biochemistry studied by single-molecule imaging. <i>Biochemical Society Transactions</i> , 2006 , 34, 983-8	5.1	14
30	LOX-1 scavenger receptor mediates calcium-dependent recognition of phosphatidylserine and apoptotic cells. <i>Biochemical Journal</i> , 2006 , 393, 107-15	3.8	67
29	The predicted coiled-coil domain of myosin 10 forms a novel elongated domain that lengthens the head. <i>Journal of Biological Chemistry</i> , 2005 , 280, 34702-8	5.4	131
28	The spatial and temporal dynamics of pleckstrin homology domain binding at the plasma membrane measured by imaging single molecules in live mouse myoblasts. <i>Journal of Biological Chemistry</i> , 2004 , 279, 15274-80	5.4	68
27	Actin filament organization in aligned perfusion myoblasts. <i>Journal of Anatomy</i> , 2004 , 205, 381-91	2.9	28
26	Imaging myosin 10 in cells. <i>Biochemical Society Transactions</i> , 2004 , 32, 689-93	5.1	15
25	Visualizing single molecules inside living cells using total internal reflection fluorescence microscopy. <i>Methods</i> , 2003 , 29, 142-52	4.6	98
24	A targeted deletion of the C-terminal end of titin, including the titin kinase domain, impairs myofibrillogenesis. <i>Journal of Cell Science</i> , 2003 , 116, 4811-9	5.3	44
23	Heterologous expression of wild-type and mutant beta-cardiac myosin changes the contractile kinetics of cultured mouse myotubes. <i>Journal of Physiology</i> , 2003 , 548, 167-74	3.9	13
22	Different regional effects of voluntary exercise on the mechanical and electrical properties of rat ventricular myocytes. <i>Journal of Physiology</i> , 2002 , 541, 863-75	3.9	93
21	Alignment of myoblasts on ultrafine gratings inhibits fusion in vitro. <i>International Journal of Biochemistry and Cell Biology</i> , 2002 , 34, 816-25	5.6	71
20	Specific changes to the mechanism of cell locomotion induced by overexpression of beta-actin. <i>Journal of Cell Science</i> , 2001 , 114, 1367-77	5.3	50
19	Evidence for differential post-translational modifications of slow myosin heavy chain during murine skeletal muscle development. <i>Journal of Muscle Research and Cell Motility</i> , 2000 , 21, 101-13	3.5	32
18	N232S, G741R and D778G beta-cardiac myosin mutants, implicated in familial hypertrophic cardiomyopathy, do not disrupt myofibrillar organisation in cultured myotubes. <i>FEBS Letters</i> , 2000 , 486, 325-7	3.8	4

17	Forced MyHCIIIB expression following targeted genetic manipulation of conditionally immortalized muscle precursor cells. <i>Experimental Cell Research</i> , 1999 , 253, 523-32	4.2	2
16	Preferential adhesion to and survival on patterned laminin organizes myogenesis in vitro. <i>Experimental Cell Research</i> , 1997 , 230, 275-83	4.2	58
15	Myogenic cells express multiple myosin isoforms. <i>Journal of Muscle Research and Cell Motility</i> , 1997 , 18, 501-15	3.5	28
14	Constitutive and variable regions of Z-disk titin/connectin in myofibril formation: a dominant-negative screen. <i>Cell Structure and Function</i> , 1997 , 22, 95-101	2.2	31
13	Chapter 7 The cellular and molecular basis of skeletal and cardiac muscle contraction. <i>Principles of Medical Biology</i> , 1996 , 201-237		
12	Myogenic cell lines derived from transgenic mice carrying a thermolabile T antigen: a model system for the derivation of tissue-specific and mutation-specific cell lines. <i>Developmental Biology</i> , 1994 , 162, 486-98	3.1	241
11	Biological and Molecular Approaches to the Generation of Conditionally Immortal Neural Cells. <i>Methods</i> , 1993 , 3, 189-199		3
10	Mechanics and Protein Content of Insect Flight Muscles. <i>Journal of Experimental Biology</i> , 1992 , 168, 57-76		34
9	Protein engineering and the study of muscle contraction in <i>Drosophila</i> flight muscles. <i>Journal of Cell Science</i> , 1991 , 14, 73-8	5.3	22
8	Alteration in crossbridge kinetics caused by mutations in actin. <i>Nature</i> , 1990 , 348, 440-2	50.4	60
7	Physiological properties of the dorsal longitudinal flight muscle and the tergal depressor of the trochanter muscle of <i>Drosophila melanogaster</i> . <i>Journal of Muscle Research and Cell Motility</i> , 1990 , 11, 203-15	3.5	123
6	Myosin crossbridge orientation in demembranated muscle fibres studied by birefringence and X-ray diffraction measurements. <i>Journal of Molecular Biology</i> , 1989 , 210, 113-26	6.5	17
5	Labile heat and changes in rate of relaxation of frog muscles. <i>Journal of Physiology</i> , 1986 , 374, 123-35	3.9	21
4	The sarcomere length dependence of the rate of heat production during isometric tetanic contraction of frog muscles. <i>Journal of Physiology</i> , 1984 , 357, 495-504	3.9	12
3	Nanoscale pattern extraction from relative positions of sparse 3D localisations		1
2	Persistent Chikungunya Virus Replication in Human Cells is Associated with Presence of Stable Cytoplasmic Granules Containing Non-structural Protein 3		1
1	Moving in the mesoscale: Understanding the mechanics of cytoskeletal molecular motors by combining mesoscale simulations with imaging. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , e1570	7.9	