

Mark Peifer

List of Publications by Year in descending order

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102
papers

9,848
citations

38742

50
h-index

38395

95
g-index

116
all docs

116
docs citations

116
times ranked

8493
citing authors

#	ARTICLE	IF	CITATIONS
1	Armadillo Coactivates Transcription Driven by the Product of the Drosophila Segment Polarity Gene dTCF. <i>Cell</i> , 1997, 88, 789-799.	28.9	1,124
2	Drosophila Tcf and Groucho interact to repress Wingless signalling activity. <i>Nature</i> , 1998, 395, 604-608.	27.8	654
3	The segment polarity gene armadillo encodes a functionally modular protein that is the Drosophila homolog of human plakoglobin. <i>Cell</i> , 1990, 63, 1167-1178.	28.9	471
4	Cadherins in embryonic and neural morphogenesis. <i>Nature Reviews Molecular Cell Biology</i> , 2000, 1, 91-100.	37.0	425
5	The positioning and segregation of apical cues during epithelial polarity establishment in Drosophila. <i>Journal of Cell Biology</i> , 2005, 170, 813-823.	5.2	267
6	Wnt Signaling from Development to Disease: Insights from Model Systems. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a002881-a002881.	5.5	267
7	Adherens junction-dependent and -independent steps in the establishment of epithelial cell polarity in Drosophila. <i>Journal of Cell Biology</i> , 2004, 167, 135-147.	5.2	247
8	Phosphorylation of the Drosophila Adherens Junction Protein Armadillo: Roles for Wingless Signal and Zeste-white 3 Kinase. <i>Developmental Biology</i> , 1994, 166, 543-556.	2.0	236
9	The <i>Drosophila</i> afadin homologue Canoe regulates linkage of the actin cytoskeleton to adherens junctions during apical constriction. <i>Journal of Cell Biology</i> , 2009, 186, 57-73.	5.2	233
10	A role for a novel centrosome cycle in asymmetric cell division. <i>Journal of Cell Biology</i> , 2007, 177, 13-20.	5.2	231
11	The SCF ^{Slimb} ubiquitin ligase regulates Plk4/Sak levels to block centriole reduplication. <i>Journal of Cell Biology</i> , 2009, 184, 225-239.	5.2	221
12	Drosophila Apc2 Is a Cytoskeletally-Associated Protein That Regulates Wingless Signaling in the Embryonic Epidermis. <i>Journal of Cell Biology</i> , 1999, 146, 1303-1318.	5.2	183
13	Decisions, decisions: β -catenin chooses between adhesion and transcription. <i>Trends in Cell Biology</i> , 2005, 15, 234-237.	7.9	176
14	Can 1000 Reviews Be Wrong? Actin, β -Catenin, and Adherens Junctions. <i>Cell</i> , 2005, 123, 769-772.	28.9	168
15	Puckered, a Drosophila MAPK phosphatase, ensures cell viability by antagonizing JNK-induced apoptosis. <i>Development (Cambridge)</i> , 2005, 132, 3935-3946.	2.5	161
16	Remodeling the zonula adherens in response to tension and the role of afadin in this response. <i>Journal of Cell Biology</i> , 2016, 213, 243-260.	5.2	157
17	Drosophila APC2 and Armadillo participate in tethering mitotic spindles to cortical actin. <i>Nature Cell Biology</i> , 2001, 3, 933-938.	10.3	156
18	A contractile actomyosin network linked to adherens junctions by Canoe/afadin helps drive convergent extension. <i>Molecular Biology of the Cell</i> , 2011, 22, 2491-2508.	2.1	151

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19	Wnt/Beta-Catenin Signaling Regulation and a Role for Biomolecular Condensates. <i>Developmental Cell</i> , 2019, 48, 429-444.	7.0	143
20	Abelson kinase regulates epithelial morphogenesis in <i>Drosophila</i> . <i>Journal of Cell Biology</i> , 2001, 155, 1185-1198.	5.2	135
21	Ena/VASP Enabled is a highly processive actin polymerase tailored to self-assemble parallel-bundled F-actin networks with Fascin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4121-4126.	7.1	132
22	Diaphanous regulates myosin and adherens junctions to control cell contractility and protrusive behavior during morphogenesis. <i>Development (Cambridge)</i> , 2008, 135, 1005-1018.	2.5	127
23	A Multicomponent Assembly Pathway Contributes to the Formation of Acentrosomal Microtubule Arrays in Interphase <i>Drosophila</i> Cells. <i>Molecular Biology of the Cell</i> , 2008, 19, 3163-3178.	2.1	127
24	<i>Drosophila</i> p120catenin plays a supporting role in cell adhesion but is not an essential adherens junction component. <i>Journal of Cell Biology</i> , 2003, 160, 433-449.	5.2	126
25	Abelson kinase (Abl) and RhoGEF2 regulate actin organization during cell constriction in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2007, 134, 567-578.	2.5	126
26	Evidence for Functional Differentiation among <i>Drosophila</i> Septins in Cytokinesis and Cellularization. <i>Molecular Biology of the Cell</i> , 2000, 11, 3123-3135.	2.1	122
27	Enabled plays key roles in embryonic epithelial morphogenesis in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2007, 134, 2027-2039.	2.5	116
28	Roles of Armadillo, a <i>Drosophila</i> catenin, during central nervous system development. <i>Current Biology</i> , 1998, 8, 622-633.	3.9	115
29	Regulation of Epithelial Morphogenesis by the G Protein-Coupled Receptor Mist and Its Ligand Fog. <i>Science Signaling</i> , 2013, 6, ra98.	3.6	112
30	Scribble: A master scaffold in polarity, adhesion, synaptogenesis, and proliferation. <i>Journal of Cell Biology</i> , 2019, 218, 742-756.	5.2	111
31	aPKC Controls Microtubule Organization to Balance Adherens Junction Symmetry and Planar Polarity during Development. <i>Developmental Cell</i> , 2007, 12, 727-738.	7.0	105
32	Balancing different types of actin polymerization at distinct sites. <i>Journal of Cell Biology</i> , 2003, 163, 1267-1279.	5.2	104
33	CellGeo: A computational platform for the analysis of shape changes in cells with complex geometries. <i>Journal of Cell Biology</i> , 2014, 204, 443-460.	5.2	93
34	Rab11 Helps Maintain Apical Crumbs and Adherens Junctions in the <i>Drosophila</i> Embryonic Ectoderm. <i>PLoS ONE</i> , 2009, 4, e7634.	2.5	92
35	Traffic control. <i>Journal of Cell Biology</i> , 2003, 163, 437-440.	5.2	91
36	<i>Drosophila</i> β -Catenin and E-cadherin Bind to Distinct Regions of <i>Drosophila</i> Armadillo. <i>Journal of Biological Chemistry</i> , 1996, 271, 32411-32420.	3.4	90

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37	Deconstructing the β -catenin destruction complex: mechanistic roles for the tumor suppressor APC in regulating Wnt signaling. <i>Molecular Biology of the Cell</i> , 2011, 22, 1845-1863.	2.1	85
38	A novel GSK3-regulated APC:Axin interaction regulates Wnt signaling by driving a catalytic cycle of efficient β -catenin destruction. <i>ELife</i> , 2015, 4, e08022.	6.0	83
39	Roles of the C Terminus of Armadillo in Wingless Signaling in <i>Drosophila</i> . <i>Genetics</i> , 1999, 153, 319-332.	2.9	76
40	Testing hypotheses for the functions of APC family proteins using null and truncation alleles in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 2006, 133, 2407-2418.	2.5	74
41	<i>Drosophila</i> APC2 and APC1 Play Overlapping Roles in Wingless Signaling in the Embryo and Imaginal Discs. <i>Developmental Biology</i> , 2002, 250, 91-100.	2.0	73
42	Rap1 and Canoe/afadin are essential for establishment of apical-basal polarity in the <i>Drosophila</i> embryo. <i>Molecular Biology of the Cell</i> , 2013, 24, 945-963.	2.1	72
43	<i>Drosophila</i> APC2 and APC1 Have Overlapping Roles in the Larval Brain Despite Their Distinct Intracellular Localizations. <i>Developmental Biology</i> , 2002, 250, 71-90.	2.0	66
44	Cytoskeletal dynamics and cell signaling during planar polarity establishment in the <i>Drosophila</i> embryonic denticle. <i>Journal of Cell Science</i> , 2006, 119, 403-415.	2.0	65
45	Exploring the Roles of Diaphanous and Enabled Activity in Shaping the Balance between Filopodia and Lamellipodia. <i>Molecular Biology of the Cell</i> , 2009, 20, 5138-5155.	2.1	64
46	LITE microscopy: Tilted light-sheet excitation of model organisms offers high resolution and low photobleaching. <i>Journal of Cell Biology</i> , 2018, 217, 1869-1882.	5.2	64
47	Interphase centrosome organization by the PLP-Cnn scaffold is required for centrosome function. <i>Journal of Cell Biology</i> , 2015, 210, 79-97.	5.2	63
48	Wnt signaling: Moving in a new direction. <i>Current Biology</i> , 2000, 10, R562-R564.	3.9	62
49	Acentrosomal <i>Drosophila</i> Epithelial Cells Exhibit Abnormal Cell Division, Leading to Cell Death and Compensatory Proliferation. <i>Developmental Cell</i> , 2014, 30, 731-745.	7.0	62
50	The single <i>Drosophila</i> ZO-1 protein Polychaetoid regulates embryonic morphogenesis in coordination with Canoe/afadin and Enabled. <i>Molecular Biology of the Cell</i> , 2011, 22, 2010-2030.	2.1	61
51	Enabled and Capping protein play important roles in shaping cell behavior during <i>Drosophila</i> oogenesis. <i>Developmental Biology</i> , 2009, 333, 90-107.	2.0	60
52	Enabled Negatively Regulates Diaphanous-Driven Actin Dynamics In Vitro and In Vivo. <i>Developmental Cell</i> , 2014, 28, 394-408.	7.0	58
53	Original CIN: reviewing roles for APC in chromosome instability. <i>Journal of Cell Biology</i> , 2008, 181, 719-726.	5.2	56
54	The <i>Drosophila</i> Afadin and ZO-1 homologues Canoe and Polychaetoid act in parallel to maintain epithelial integrity when challenged by adherens junction remodeling. <i>Molecular Biology of the Cell</i> , 2019, 30, 1938-1960.	2.1	53

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55	Cadherin Sequences That Inhibit β -Catenin Signaling: A Study in Yeast and Mammalian Cells. <i>Molecular Biology of the Cell</i> , 2001, 12, 1177-1188.	2.1	52
56	The Ballet of Morphogenesis. <i>Cell</i> , 2002, 109, 271-274.	28.9	51
57	Supramolecular assembly of the beta-catenin destruction complex and the effect of Wnt signaling on its localization, molecular size, and activity in vivo. <i>PLoS Genetics</i> , 2018, 14, e1007339.	3.5	50
58	Rho1 regulates <i>Drosophila</i> adherens junctions independently of p120ctn. <i>Development (Cambridge)</i> , 2005, 132, 4819-4831.	2.5	48
59	Rap1 acts via multiple mechanisms to position <i>Canoe/Afadin</i> and adherens junctions and mediate apical-basal polarity establishment. <i>Development (Cambridge)</i> , 2018, 145, .	2.5	48
60	Orchestrating morphogenesis: building the body plan by cell shape changes and movements. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	48
61	A model system for cell adhesion and signal transduction in <i>Drosophila</i> . <i>Development (Cambridge)</i> , 1993, 119, 163-176.	2.5	47
62	Talin Autoinhibition Is Required for Morphogenesis. <i>Current Biology</i> , 2013, 23, 1825-1833.	3.9	43
63	The Miraprep: A Protocol that Uses a Miniprep Kit and Provides Maxiprep Yields. <i>PLoS ONE</i> , 2016, 11, e0160509.	2.5	42
64	A Screen for Mutations That Suppress the Phenotype of <i>Drosophila armadillo</i> , the β -Catenin Homolog. <i>Genetics</i> , 2000, 155, 1725-1740.	2.9	41
65	Novel roles for APC family members and <i>Wingless/Wnt</i> signaling during <i>Drosophila</i> brain development. <i>Developmental Biology</i> , 2007, 305, 358-376.	2.0	38
66	Neither straight nor narrow. <i>Nature</i> , 1999, 400, 213-215.	27.8	36
67	The actin regulators <i>Enabled</i> and <i>Diaphanous</i> direct distinct protrusive behaviors in different tissues during <i>Drosophila</i> development. <i>Molecular Biology of the Cell</i> , 2014, 25, 3147-3165.	2.1	35
68	Centrosome and spindle assembly checkpoint loss leads to neural apoptosis and reduced brain size. <i>Journal of Cell Biology</i> , 2017, 216, 1255-1265.	5.2	34
69	Putting the model to the test: are APC proteins essential for neuronal polarity, axon outgrowth, and axon targeting?. <i>Journal of Cell Biology</i> , 2008, 183, 203-212.	5.2	30
70	Regulation of Wnt signaling by the tumor suppressor <i>adenomatous polyposis coli</i> does not require the ability to enter the nucleus or a particular cytoplasmic localization. <i>Molecular Biology of the Cell</i> , 2012, 23, 2041-2056.	2.1	28
71	Terminal Regions of β -Catenin Come into View. <i>Structure</i> , 2008, 16, 336-338.	3.3	27
72	Reconstituting regulation of the canonical Wnt pathway by engineering a minimal β -catenin destruction machine. <i>Molecular Biology of the Cell</i> , 2017, 28, 41-53.	2.1	26

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73	Scribble and discs-large direct initial assembly and positioning of adherens junctions during establishment of apical-basal polarity. <i>Development (Cambridge)</i> , 2019, 146, .	2.5	26
74	Using Bcr-Abl to Examine Mechanisms by Which Abl Kinase Regulates Morphogenesis in <i>Drosophila</i> . <i>Molecular Biology of the Cell</i> , 2008, 19, 378-393.	2.1	25
75	Teaching tumour suppressors new tricks. <i>Nature Cell Biology</i> , 2000, 2, E58-E60.	10.3	23
76	Multivalent interactions make adherens junctions' cytoskeletal linkage robust during morphogenesis. <i>Journal of Cell Biology</i> , 2021, 220, .	5.2	21
77	APC2 and Axin promote mitotic fidelity by facilitating centrosome separation and cytoskeletal regulation. <i>Development (Cambridge)</i> , 2013, 140, 4226-4236.	2.5	19
78	Abelson kinase acts as a robust, multifunctional scaffold in regulating embryonic morphogenesis. <i>Molecular Biology of the Cell</i> , 2016, 27, 2613-2631.	2.1	19
79	Defining Components of the 'Catenin Destruction Complex and Exploring Its Regulation and Mechanisms of Action during Development. <i>PLoS ONE</i> , 2012, 7, e31284.	2.5	18
80	Wnt regulation: exploring Axin-Dishevelled interactions and defining mechanisms by which the SCF E3 ubiquitin ligase is recruited to the destruction complex. <i>Molecular Biology of the Cell</i> , 2020, 31, 992-1014.	2.1	15
81	Which way is up?. <i>Nature</i> , 2000, 403, 611-612.	27.8	14
82	The argument for diversifying the NIH grant portfolio. <i>Molecular Biology of the Cell</i> , 2017, 28, 2935-2940.	2.1	14
83	The product of the <i>Drosophila melanogaster</i> segment polarity gene armadillo is highly conserved in sequence and expression in the housefly <i>Musca domestica</i> . <i>Journal of Molecular Evolution</i> , 1993, 36, 224-233.	1.8	13
84	Birds of a feather flock together. <i>Nature</i> , 1998, 395, 324-325.	27.8	13
85	It takes more than two to tango: Dishevelled polymerization and Wnt signaling. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 463-465.	8.2	13
86	Micron-scale supramolecular myosin arrays help mediate cytoskeletal assembly at mature adherens junctions. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	13
87	Centrosome Loss Triggers a Transcriptional Program To Counter Apoptosis-Induced Oxidative Stress. <i>Genetics</i> , 2019, 212, 187-211.	2.9	12
88	Cell Biology: A Tense but Good Day for Actin at Cell's Cell Junctions. <i>Current Biology</i> , 2014, 24, R688-R690.	3.9	11
89	Abelson kinase's intrinsically disordered region plays essential roles in protein function and protein stability. <i>Cell Communication and Signaling</i> , 2021, 19, 27.	6.5	10
90	Genetic and Bioinformatic Analysis of 41C and the 2R Heterochromatin of <i>Drosophila melanogaster</i> : A Window on the Heterochromatin-Euchromatin Junction. <i>Genetics</i> , 2004, 166, 807-822.	2.9	9

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91	Wnt Signaling: The Many Interfaces of β^2 -Catenin. <i>Current Biology</i> , 2012, 22, R137-R139.	3.9	8
92	Actin and Apical Constriction: Some (Re)-Assembly Required. <i>Developmental Cell</i> , 2015, 35, 662-664.	7.0	5
93	Call to restore NIH's cap on grant funding. <i>Science</i> , 2017, 357, 364-364.	12.6	5
94	The Crk adapter protein is essential for <i>Drosophila</i> embryogenesis, where it regulates multiple actin-dependent morphogenic events. <i>Molecular Biology of the Cell</i> , 2019, 30, 2399-2421.	2.1	5
95	Scribble and Dlg organize a protection racket to ensure apical-basal polarity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 13188-13190.	7.1	5
96	Modulating apical-basal polarity by building and deconstructing a Yurt. <i>Journal of Cell Biology</i> , 2018, 217, 3772-3773.	5.2	2
97	Getting into shape: tissue tension drives oriented cell divisions during organogenesis. <i>EMBO Journal</i> , 2019, 38, .	7.8	2
98	The Eighth Day of Creation: looking back across 40 years to the birth of molecular biology and the roots of modern cell biology. <i>Molecular Biology of the Cell</i> , 2020, 31, 81-86.	2.1	1
99	Wingless can't fly so it hitches a ride with dynein. <i>BioEssays</i> , 2001, 23, 869-872.	2.5	0
100	What your PI forgot to tell you: why you actually might want a job running a research lab. <i>Molecular Biology of the Cell</i> , 2017, 28, 1724-1727.	2.1	0
101	Good Fences Make Good Neighbors: Crumbs Regulates Rho-Kinase Dynamics to Assemble a Tissue Boundary. <i>Developmental Cell</i> , 2020, 52, 255-256.	7.0	0
102	Getting the Word Out on Effective Ways to Teach: the Promoting Active Learning & Mentoring (PALM) Research Coordination Network. <i>FASEB Journal</i> , 2016, 30, 885.2.	0.5	0