Mark Peifer

List of Publications by Year
in descending order

102 papers	9,848 citations	38720 50 h-index	38368 95 g-index
116 all docs	116 docs citations	116 times ranked	8493 citing authors

#	Article	IF	Citations
1	Micron-scale supramolecular myosin arrays help mediate cytoskeletal assembly at mature adherens junctions. Journal of Cell Biology, 2022, 221, .	2.3	13
2	Abelson kinaseâ€™s intrinsically disordered region plays essential roles in protein function and protein stability. Cell Communication and Signaling, 2021, 19, 27.	2.7	10
3	Multivalent interactions make adherens junctionâ€“cytoskeletal linkage robust during morphogenesis. Journal of Cell Biology, 2021, 220, .	2.3	21
4	Orchestrating morphogenesis: building the body plan by cell shape changes and movements. Development (Cambridge), 2020, 147, .	1.2	48
5	Scribble and Dlg organize a protection racket to ensure apicalâ€“basal polarity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13188-13190.	3.3	5
6	Wnt regulation: exploring Axin-Disheveled interactions and defining mechanisms by which the SCF E3 ubiquitin ligase is recruited to the destruction complex. Molecular Biology of the Cell, 2020, 31, 992-1014.	0.9	15
7	Good Fences Make Good Neighbors: Crumbs Regulates Rho-Kinase Dynamics to Assemble a Tissue Boundary. Developmental Cell, 2020, 52, 255-256.	3.1	0
8	The Eighth Day of Creation: looking back across 40 years to the birth of molecular biology and the roots of modern cell biology. Molecular Biology of the Cell, 2020, 31, 81-86.	0.9	1
9	The Crk adapter protein is essential forDrosophilaembryogenesis, where it regulates multiple actin-dependent morphogenic events. Molecular Biology of the Cell, 2019, 30, 2399-2421.	0.9	5
10	Scribble and discs-large direct initial assembly and positioning of adherens junctions during establishment of apical-basal polarity. Development (Cambridge), 2019, 146, .	1.2	26
11	Getting into shape: tissue tension drives oriented cell divisions duringÂorganogenesis. EMBO Journal, 2019, 38, .	3.5	2
12	TheDrosophilaAfadin and ZO-1 homologues Canoe and Polychaetoid act in parallel to maintain epithelial integrity when challenged by adherens junction remodeling. Molecular Biology of the Cell, 2019, 30, 1938-1960.	0.9	53
13	Centrosome Loss Triggers a Transcriptional Program To Counter Apoptosis-Induced Oxidative Stress. Genetics, 2019, 212, 187-211.	1.2	12
14	Wnt/Beta-Catenin Signaling Regulation and a Role for Biomolecular Condensates. Developmental Cell, 2019, 48, 429-444.	3.1	143
15	Scribble: A master scaffold in polarity, adhesion, synaptogenesis, and proliferation. Journal of Cell Biology, 2019, 218, 742-756.	2.3	111
16	Rap1 acts via multiple mechanisms to position Canoe/Afadin and adherens junctions and mediate apical-basal polarity establishment. Development (Cambridge), 2018, 145, .	1.2	48
17	LITE microscopy: Tilted light-sheet excitation of model organisms offers high resolution and low photobleaching. Journal of Cell Biology, 2018, 217, 1869-1882.	2.3	64
18	Modulating apicalâ€“basal polarity by building and deconstructing a Yurt. Journal of Cell Biology, 2018, 217, 3772-3773.	2.3	2

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19	Supramolecular assembly of the beta-catenin destruction complex and the effect of Wnt signaling on its localization, molecular size, and activity in vivo. PLoS Genetics, 2018, 14, e1007339.	1.5	50
20	Centrosome and spindle assembly checkpoint loss leads to neural apoptosis and reduced brain size. Journal of Cell Biology, 2017, 216, 1255-1265.	2.3	34
21	The argument for diversifying the NIH grant portfolio. Molecular Biology of the Cell, 2017, 28, 2935-2940.	0.9	14
22	What your PI forgot to tell you: why you actually might want a job running a research lab. Molecular Biology of the Cell, 2017, 28, 1724-1727.	0.9	0
23	Call to restore NIH's cap on grant funding. Science, 2017, 357, 364-364.	6.0	5
24	Reconstituting regulation of the canonical Wnt pathway by engineering a minimal Î²-catenin destruction machine. Molecular Biology of the Cell, 2017, 28, 41-53.	0.9	26
25	The Miraprep: A Protocol that Uses a Miniprep Kit and Provides Maxiprep Yields. PLoS ONE, 2016, 11, e0160509.	1.1	42
26	Abelson kinase acts as a robust, multifunctional scaffold in regulating embryonic morphogenesis. Molecular Biology of the Cell, 2016, 27, 2613-2631.	0.9	19
27	Remodeling the zonula adherens in response to tension and the role of afadin in this response. Journal of Cell Biology, 2016, 213, 243-260.	2.3	157
28	Getting the Word Out on Effective Ways to Teach: the Promoting Active Learning & Mentoring (PALM) Research Coordination Network. FASEB Journal, 2016, 30, 885.2.	0.2	0
29	Actin and Apical Constriction: Some (Re)-Assembly Required. Developmental Cell, 2015, 35, 662-664.	3.1	5
30	Interphase centrosome organization by the PLP-Cnn scaffold is required for centrosome function. Journal of Cell Biology, 2015, 210, 79-97.	2.3	63
31	A novel GSK3-regulated APC:Axin interaction regulates Wnt signaling by driving a catalytic cycle of efficient Î²catenin destruction. ELife, 2015, 4, e08022.	2.8	83
32	Ena/VASP Enabled is a highly processive actin polymerase tailored to self-assemble parallel-bundled F-actin networks with Fascin. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4121-4126.	3.3	132
33	The actin regulators Enabled and Diaphanous direct distinct protrusive behaviors in different tissues during Drosophila development. Molecular Biology of the Cell, 2014, 25, 3147-3165.	0.9	35
34	CellGeo: A computational platform for the analysis of shape changes in cells with complex geometries. Journal of Cell Biology, 2014, 204, 443-460.	2.3	93
35	Acentrosomal Drosophila Epithelial Cells Exhibit Abnormal Cell Division, Leading to Cell Death and Compensatory Proliferation. Developmental Cell, 2014, 30, 731-745.	3.1	62
36	Cell Biology: A Tense but Good Day for Actin at Cellâ€“Cell Junctions. Current Biology, 2014, 24, R688-R690.	1.8	11

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37	Enabled Negatively Regulates Diaphanous-Driven Actin Dynamics InÂVitro and InÂVivo. Developmental Cell, 2014, 28, 394-408.	3.1	58
38	Talin Autoinhibition Is Required for Morphogenesis. Current Biology, 2013, 23, 1825-1833.	1.8	43
39	Regulation of Epithelial Morphogenesis by the G Proteinâ€“Coupled Receptor Mist and Its Ligand Fog. Science Signaling, 2013, 6, ra98.	1.6	112
40	APC2 and Axin promote mitotic fidelity by facilitating centrosome separation and cytoskeletal regulation. Development (Cambridge), 2013, 140, 4226-4236.	1.2	19
41	Rap1 and Canoe/afadin are essential for establishment of apicalâ€“basal polarity in theDrosophilaembryo. Molecular Biology of the Cell, 2013, 24, 945-963.	0.9	72
42	Defining Components of the ÃŸcatenin Destruction Complex and Exploring Its Regulation and Mechanisms of Action during Development. PLoS ONE, 2012, 7, e31284.	1.1	18
43	Regulation of Wnt signaling by the tumor suppressor adenomatous polyposis coli does not require the ability to enter the nucleus or a particular cytoplasmic localization. Molecular Biology of the Cell, 2012, 23, 2041-2056.	0.9	28
44	Wnt Signaling: The Many Interfaces of Î²-Catenin. Current Biology, 2012, 22, R137-R139.	1.8	8
45	A contractile actomyosin network linked to adherens junctions by Canoe/afadin helps drive convergent extension. Molecular Biology of the Cell, 2011, 22, 2491-2508.	0.9	151
46	The singleDrosophilaZO-1 protein Polychaetoid regulates embryonic morphogenesis in coordination with Canoe/afadin and Enabled. Molecular Biology of the Cell, 2011, 22, 2010-2030.	0.9	61
47	Deconstructing the ÃŸcatenin destruction complex: mechanistic roles for the tumor suppressor APC in regulating Wnt signaling. Molecular Biology of the Cell, 2011, 22, 1845-1863.	0.9	85
48	Rab11 Helps Maintain Apical Crumbs and Adherens Junctions in the Drosophila Embryonic Ectoderm. PLoS ONE, 2009, 4, e7634.	1.1	92
49	The Drosophila afadin homologue Canoe regulates linkage of the actin cytoskeleton to adherens junctions during apical constriction. Journal of Cell Biology, 2009, 186, 57-73.	2.3	233
50	The SCFSlimb ubiquitin ligase regulates Plk4/Sak levels to block centriole reduplication. Journal of Cell Biology, 2009, 184, 225-239.	2.3	221
51	Exploring the Roles of Diaphanous and Enabled Activity in Shaping the Balance between Filopodia and Lamellipodia. Molecular Biology of the Cell, 2009, 20, 5138-5155.	0.9	64
52	Wnt Signaling from Development to Disease: Insights from Model Systems. Cold Spring Harbor Perspectives in Biology, 2009, 1, a002881-a002881.	2.3	267
53	Enabled and Capping protein play important roles in shaping cell behavior during Drosophila oogenesis. Developmental Biology, 2009, 333, 90-107.	0.9	60
54	Terminal Regions of Î²-Catenin Come into View. Structure, 2008, 16, 336-338.	1.6	27

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55	Diaphanous regulates myosin and adherens junctions to control cell contractility and protrusive behavior during morphogenesis. Development (Cambridge), 2008, 135, 1005-1018.	1.2	127
56	Original CIN: reviewing roles for APC in chromosome instability. Journal of Cell Biology, 2008, 181, 719-726.	2.3	56
57	Putting the model to the test: are APC proteins essential for neuronal polarity, axon outgrowth, and axon targeting?. Journal of Cell Biology, 2008, 183, 203-212.	2.3	30
58	Using Bcr-Abl to Examine Mechanisms by Which Abl Kinase Regulates Morphogenesis inDrosophila. Molecular Biology of the Cell, 2008, 19, 378-393.	0.9	25
59	A Multicomponent Assembly Pathway Contributes to the Formation of Acentrosomal Microtubule Arrays in InterphaseDrosophilaCells. Molecular Biology of the Cell, 2008, 19, 3163-3178.	0.9	127
60	Enabled plays key roles in embryonic epithelial morphogenesis in Drosophila. Development (Cambridge), 2007, 134, 2027-2039.	1.2	116
61	Abelson kinase (Abl) and RhoGEF2 regulate actin organization during cell constriction in Drosophila. Development (Cambridge), 2007, 134, 567-578.	1.2	126
62	A role for a novel centrosome cycle in asymmetric cell division. Journal of Cell Biology, 2007, 177, 13-20.	2.3	231
63	Novel roles for APC family members and Wingless/Wnt signaling during Drosophila brain development. Developmental Biology, 2007, 305, 358-376.	0.9	38
64	aPKC Controls Microtubule Organization to Balance Adherens Junction Symmetry and Planar Polarity during Development. Developmental Cell, 2007, 12, 727-738.	3.1	105
65	It takes more than two to tango: Dishevelled polymerization and Wnt signaling. Nature Structural and Molecular Biology, 2007, 14, 463-465.	3.6	13
66	Cytoskeletal dynamics and cell signaling during planar polarity establishment in the Drosophila embryonic denticle. Journal of Cell Science, 2006, 119, 403-415.	1.2	65
67	Testing hypotheses for the functions of APC family proteins using null and truncation alleles in Drosophila. Development (Cambridge), 2006, 133, 2407-2418.	1.2	74
68	Decisions, decisions: Î²-catenin chooses between adhesion and transcription. Trends in Cell Biology, 2005, 15, 234-237.	3.6	176
69	The positioning and segregation of apical cues during epithelial polarity establishment in Drosophila. Journal of Cell Biology, 2005, 170, 813-823.	2.3	267
70	Puckered, a Drosophila MAPK phosphatase, ensures cell viability by antagonizing JNK-induced apoptosis. Development (Cambridge), 2005, 132, 3935-3946.	1.2	161
71	Rho1 regulates Drosophila adherens junctions independently of p120ctn. Development (Cambridge), 2005, 132, 4819-4831.	1.2	48
72	Can 1000 Reviews Be Wrong? Actin, Î±-Catenin, and Adherens Junctions. Cell, 2005, 123, 769-772.	13.5	168

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73	Adherens junction-dependent and -independent steps in the establishment of epithelial cell polarity in Drosophila. Journal of Cell Biology, 2004, 167, 135-147.	2.3	247
74	Genetic and Bioinformatic Analysis of 41C and the 2R Heterochromatin of Drosophila melanogaster: A Window on the Heterochromatin-Euchromatin Junction. Genetics, 2004, 166, 807-822.	1.2	9
75	Drosophila p120catenin plays a supporting role in cell adhesion but is not an essential adherens junction component. Journal of Cell Biology, 2003, 160, 433-449.	2.3	126
76	Balancing different types of actin polymerization at distinct sites. Journal of Cell Biology, 2003, 163, 1267-1279.	2.3	104
77	Traffic control. Journal of Cell Biology, 2003, 163, 437-440.	2.3	91
78	Drosophila APC2 and APC1 Play Overlapping Roles in Wingless Signaling in the Embryo and Imaginal Discs. Developmental Biology, 2002, 250, 91-100.	0.9	73
79	Drosophila APC2 and APC1 Have Overlapping Roles in the Larval Brain Despite Their Distinct Intracellular Localizations. Developmental Biology, 2002, 250, 71-90.	0.9	66
80	The Ballet of Morphogenesis. Cell, 2002, 109, 271-274.	13.5	51
81	Wingless can't fly so it hitches a ride with dynein. BioEssays, 2001, 23, 869-872.	1.2	0
82	Drosophila APC2 and Armadillo participate in tethering mitotic spindles to cortical actin. Nature Cell Biology, 2001, 3, 933-938.	4.6	156
83	Cadherin Sequences That Inhibit Î²-Catenin Signaling: A Study in Yeast and Mammalian Cells. Molecular Biology of the Cell, 2001, 12, 1177-1188.	0.9	52
84	Abelson kinase regulates epithelial morphogenesis in Drosophila. Journal of Cell Biology, 2001, 155, 1185-1198.	2.3	135
85	Which way is up?. Nature, 2000, 403, 611-612.	13.7	14
86	Teaching tumour suppressors new tricks. Nature Cell Biology, 2000, 2, E58-E60.	4.6	23
87	Cadherins in embryonic and neural morphogenesis. Nature Reviews Molecular Cell Biology, 2000, 1, 91-100.	16.1	425
88	Wnt signaling: Moving in a new direction. Current Biology, 2000, 10, R562-R564.	1.8	62
89	Evidence for Functional Differentiation amongDrosophilaSeptins in Cytokinesis and Cellularization. Molecular Biology of the Cell, 2000, 11, 3123-3135.	0.9	122
90	A Screen for Mutations That Suppress the Phenotype of Drosophila armadillo, the Î²-Catenin Homolog. Genetics, 2000, 155, 1725-1740.	1.2	41

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91	Drosophila Apc2 Is a Cytoskeletally-Associated Protein That Regulates Wingless Signaling in the Embryonic Epidermis. Journal of Cell Biology, 1999, 146, 1303-1318.	2.3	183
92	Neither straight nor narrow. Nature, 1999, 400, 213-215.	13.7	36
93	Roles of the C Terminus of Armadillo in Wingless Signaling in Drosophila. Genetics, 1999, 153, 319-332.	1.2	76
94	Birds of a feather flock together. Nature, 1998, 395, 324-325.	13.7	13
95	Drosophila Tcf and Groucho interact to repress Wingless signalling activity. Nature, 1998, 395, 604-608.	13.7	654
96	Roles of Armadillo, a Drosophila catenin, during central nervous system development. Current Biology, 1998, 8, 622-633.	1.8	115
97	Armadillo Coactivates Transcription Driven by the Product of the Drosophila Segment Polarity Gene dTCF. Cell, 1997, 88, 789-799.	13.5	1,124
98	Drosophila Î±-Catenin and E-cadherin Bind to Distinct Regions of Drosophila Armadillo. Journal of Biological Chemistry, 1996, 271, 32411-32420.	1.6	90
99	Phosphorylation of the Drosophila Adherens Junction Protein Armadillo: Roles for Wingless Signal and Zeste-white 3 Kinase. Developmental Biology, 1994, 166, 543-556.	0.9	236
100	The product of the Drosophila melanogaster segment polarity gene armadillo is highly conserved in sequence and expression in the housefly Musca domestica. Journal of Molecular Evolution, 1993, 36, 224-233.	0.8	13
101	A model system for cell adhesion and signal transduction in Drosophila. Development (Cambridge), 1993, 119, 163-176.	1.2	47
102	The segment polarity gene armadillo encodes a functionally modular protein that is the Drosophila homolog of human plakoglobin. Cell, 1990, 63, 1167-1178.	13.5	471