

# Peter Satir

## List of Publications by Year in descending order

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83  
papers

7,380  
citations

109321

35  
h-index

60623

81  
g-index

88  
all docs

88  
docs citations

88  
times ranked

5718  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of Structure and Function of Mammalian Cilia. Annual Review of Physiology, 2007, 69, 377-400.	13.1	941
2	STUDIES ON CILIA. Journal of Cell Biology, 1968, 39, 77-94.	5.2	544
3	PDGFR $\beta$ Signaling Is Regulated through the Primary Cilium in Fibroblasts. Current Biology, 2005, 15, 1861-1866.	3.9	517
4	The primary cilium at a glance. Journal of Cell Science, 2010, 123, 499-503.	2.0	455
5	THE CILIARY NECKLACE. Journal of Cell Biology, 1972, 53, 494-509.	5.2	450
6	Functional interaction between autophagy and ciliogenesis. Nature, 2013, 502, 194-200.	27.8	357
7	MEMBRANE FUSION IN A MODEL SYSTEM. Journal of Cell Biology, 1973, 56, 153-176.	5.2	342
8	THE STRUCTURAL BASIS OF CILIARY BEND FORMATION. Journal of Cell Biology, 1974, 63, 35-63.	5.2	342
9	STUDIES ON CILIA. Journal of Cell Biology, 1965, 26, 805-834.	5.2	245
10	Directional Cell Migration and Chemotaxis in Wound Healing Response to PDGF-AA are Coordinated by the Primary Cilium in Fibroblasts. Cellular Physiology and Biochemistry, 2010, 25, 279-292.	1.6	226
11	Sensory Cilia and Integration of Signal Transduction in Human Health and Disease. Traffic, 2007, 8, 97-109.	2.7	222
12	Structure and function of mammalian cilia. Histochemistry and Cell Biology, 2008, 129, 687-693.	1.7	168
13	Primary cilia and coordination of receptor tyrosine kinase (RTK) signalling. Journal of Pathology, 2012, 226, 172-184.	4.5	151
14	Chapter 10 The Primary Cilium Coordinates Signaling Pathways in Cell Cycle Control and Migration During Development and Tissue Repair. Current Topics in Developmental Biology, 2008, 85, 261-301.	2.2	135
15	Human embryonic stem cells in culture possess primary cilia with hedgehog signaling machinery. Journal of Cell Biology, 2008, 180, 897-904.	5.2	135
16	SEPTATE AND GAP JUNCTIONS IN MOLLUSCAN GILL EPITHELIUM. Journal of Cell Biology, 1971, 51, 869-872.	5.2	116
17	Splitting the ciliary axoneme: Implications for a 'Switch-Point' model of dynein arm activity in ciliary motion. Cytoskeleton, 1989, 14, 345-358.	4.4	100
18	A Structural Basis for How Motile Cilia Beat. BioScience, 2014, 64, 1073-1083.	4.9	100

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19	Chapter 3 How Did the Cilium Evolve?. <i>Current Topics in Developmental Biology</i> , 2008, 85, 63-82.	2.2	99
20	Membrane Reorganization during Secretion in <i>Tetrahymena</i> . <i>Nature</i> , 1972, 235, 53-54.	27.8	92
21	The mechanochemical cycle of the dynein arm. <i>Cell Motility</i> , 1981, 1, 303-327.	1.8	91
22	Insulin receptor-like proteins in <i>Tetrahymena thermophila</i> ciliary membranes. <i>Current Biology</i> , 2003, 13, R50-R52.	3.9	88
23	The Na <sup>+</sup> /H <sup>+</sup> exchanger NHE1 is required for directional migration stimulated via PDGFR $\beta$ in the primary cilium. <i>Journal of Cell Biology</i> , 2009, 185, 163-176.	5.2	85
24	Effect of vanadate on gill cilia: Switching mechanism in ciliary beat. <i>Journal of Supramolecular Structure</i> , 1979, 11, 339-347.	2.3	81
25	PDGFR $\beta$ signaling in the primary cilium regulates NHE1-dependent fibroblast migration via coordinated differential activity of MEK1/2-ERK1/2-p90RSK and AKT signaling pathways. <i>Journal of Cell Science</i> , 2013, 126, 953-65.	2.0	76
26	In vitro phosphorylation of <i>Paramecium</i> axonemes and permeabilized cells. <i>Cytoskeleton</i> , 1989, 12, 1-11.	4.4	74
27	CILIA: before and after. <i>Cilia</i> , 2017, 6, 1.	1.8	66
28	Evidence of microfilament-associated mitochondrial movement. <i>Journal of Supramolecular Structure</i> , 1979, 12, 165-175.	2.3	58
29	“Smart dust” biosensors powered by biomolecular motors. <i>Lab on A Chip</i> , 2009, 9, 1661.	6.0	58
30	The Ciliary Cytoskeleton. , 2012, 2, 779-803.		45
31	Trifluoperazine-induced changes in swimming behavior of <i>paramecium</i> : Evidence for two sites of drug action. <i>Cell Motility</i> , 1984, 4, 249-267.	1.8	40
32	A Regulatory Light Chain of Ciliary Outer Arm Dynein in <i>Tetrahymena thermophila</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 20048-20054.	3.4	40
33	The control of ciliary beat frequency. <i>Trends in Cell Biology</i> , 1993, 3, 409-412.	7.9	39
34	Landmarks in cilia research from leeuwenhoek to US. <i>Cytoskeleton</i> , 1995, 32, 90-94.	4.4	39
35	Dynein arm substructure and the orientation of arm-microtubule attachments. <i>Journal of Molecular Biology</i> , 1984, 173, 389-401.	4.2	37
36	Tails of <i>Tetrahymena</i> . <i>Journal of Protozoology</i> , 1977, 24, 498-501.	0.8	36

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37	Evolution and persistence of the cilium. <i>Cytoskeleton</i> , 2007, 64, 906-913.	4.4	36
38	The antagonistic effects of 5-hydroxytryptamine and methylxanthine on the gill cilia of <i>mytilus edulis</i> . <i>Cell Motility</i> , 1985, 5, 293-309.	1.8	35
39	Long-term storage of bionanodevices by freezing and lyophilization. <i>Lab on A Chip</i> , 2006, 6, 1239.	6.0	34
40	A Sliding Microtubule Model Incorporating Axonemal Twist and Compatible With Three-dimensional Ciliary Bending. <i>Journal of Experimental Biology</i> , 1979, 78, 265-280.	1.7	33
41	Cilia. <i>Scientific American</i> , 1961, 204, 108-116.	1.0	32
42	Calcium does not inhibit active sliding of microtubules from mussel gill cilia. <i>Nature</i> , 1979, 278, 69-70.	27.8	32
43	The Generation of Ciliary Motion <sup>1,2</sup> . <i>Journal of Protozoology</i> , 1984, 31, 8-12.	0.8	29
44	Effects of trifluoperazine upon the calcium-dependent ciliary arrest response of freshwater mussel gill lateral cells. <i>Cell Motility</i> , 1982, 2, 405-427.	1.8	24
45	Chirality of the cytoskeleton in the origins of cellular asymmetry. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150408.	4.0	24
46	Physical model of axonemal splitting. <i>Cytoskeleton</i> , 1994, 27, 287-298.	4.4	23
47	Cloning and characterization of Kin5, a novel <i>Tetrahymena</i> ciliary kinesin II. <i>Cytoskeleton</i> , 2004, 58, 1-9.	4.4	22
48	Analysis of Primary Cilia in Directional Cell Migration in Fibroblasts. <i>Methods in Enzymology</i> , 2013, 525, 45-58.	1.0	22
49	Ca <sup>2+</sup> -dependent arrest of cilia without uncoupling epithelial cells. <i>Nature</i> , 1976, 263, 520-521.	27.8	20
50	Ultrastructure and motion analysis of permeabilized <i>paramecium</i> capable of motility and regulation of motility. <i>Cytoskeleton</i> , 1988, 9, 73-84.	4.4	20
51	The cilium as a biological nanomachine. <i>FASEB Journal</i> , 1999, 13, S235-7.	0.5	20
52	Cilia Biology: Stop Overeating Now!. <i>Current Biology</i> , 2007, 17, R963-R965.	3.9	20
53	Structural and Functional Characterization of <i>Paramecium</i> Dynein: Initial Studies. <i>Journal of Protozoology</i> , 1991, 38, 55-61.	0.8	18
54	Mirror-imaged doublets of <i>Tetmemena pustulata</i> : Implications for the development of leftâ€“right asymmetry. <i>Developmental Biology</i> , 2008, 314, 150-160.	2.0	18

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55	Closing remarks before the banquet or from dynein Haul to dining hall. <i>Cell Motility</i> , 1982, 2, 225-228.	1.8	17
56	Regulation of ciliary beat frequency by a dynein light chain. <i>Cytoskeleton</i> , 1995, 32, 121-124.	4.4	16
57	Characterization of the Eyespot Regions of "Blind" <i>Chlamydomonas</i> Mutants after Restoration of Photophobic Responses. <i>Journal of Eukaryotic Microbiology</i> , 1994, 41, 593-601.	1.7	14
58	A Sec7-related protein in <i>Paramecium</i> . <i>FASEB Journal</i> , 1999, 13, 1249-1257.	0.5	14
59	Coordination of outer arm dynein activity along axonemal doublet microtubules. <i>Cytoskeleton</i> , 2008, 65, 572-580.	4.4	13
60	Spreading ciliary arrest in a mussel gill epithelium: Characterization by quick fixation. <i>Journal of Cellular Physiology</i> , 1986, 126, 191-205.	4.1	11
61	High speed sliding of axonemal microtubules produced by outer arm dynein. <i>Cytoskeleton</i> , 2005, 60, 96-103.	4.4	11
62	Evolutionary implications of localization of the signaling scaffold protein Parafusin to both cilia and the nucleus. <i>Cell Biology International</i> , 2015, 39, 136-145.	3.0	11
63	Multiple effects of ethanol and 5-hydroxytryptamine on the gill cilia of <i>mytilus edulis</i> . <i>Cell Motility</i> , 1982, 2, 215-224.	1.8	10
64	Structural and geometrical constraints on the outer dynein arm in situ. <i>Cytoskeleton</i> , 1994, 27, 299-312.	4.4	10
65	Evidence for a Novel Affinity Mechanism of Motor-assisted Transport Along Microtubules. <i>Molecular Biology of the Cell</i> , 2000, 11, 161-169.	2.1	10
66	Tour of organelles through the electron microscope: A reprinting of Keith R. Porter's classic Harvey Lecture with a new introduction. <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , 2005, 287A, 1184-1204.	2.0	10
67	Kin5 Knockdown in <i>Tetrahymena thermophila</i> Using RNAi Blocks Cargo Transport of Gef1. <i>PLoS ONE</i> , 2009, 4, e4873.	2.5	10
68	The conserved ancestral signaling pathway from cilium to nucleus. <i>Journal of Cell Science</i> , 2019, 132, .	2.0	9
69	Dynein as a microtubule translocator in ciliary motility: Current studies of arm structure and activity pattern. <i>Cytoskeleton</i> , 1988, 10, 263-270.	4.4	8
70	Control of ciliary motility: A unifying hypothesis. <i>European Journal of Protistology</i> , 2003, 39, 410-415.	1.5	6
71	Primary cilia: Integral to development and disease. <i>Developmental Dynamics</i> , 2008, 237, 1953-1954.	1.8	6
72	Origin of the Cilium. <i>Methods in Cell Biology</i> , 2009, 94, 53-64.	1.1	6

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73	CLEM Methods for Studying Primary Cilia. <i>Methods in Molecular Biology</i> , 2016, 1454, 193-202.	0.9	5
74	A Comment On the Origin of the Vertebrate Eye. <i>The Anatomical Record</i> , 2000, 261, 224-227.	1.8	4
75	A Sec7-related Protein in Tetrahymena. <i>Journal of Eukaryotic Microbiology</i> , 2005, 52, 7S-27S.	1.7	4
76	Controlling the direction of division. <i>Stem Cell Research and Therapy</i> , 2010, 1, 21.	5.5	3
77	Keith r. porter and the first electron micrograph of a cell. <i>Trends in Cell Biology</i> , 1997, 7, 330-332.	7.9	2
78	GEF1 is a ciliary Sec7 GEF of <i>Tetrahymena thermophila</i> . <i>Cytoskeleton</i> , 2009, 66, 483-499.	4.4	2
79	Onward from the cradle. <i>Molecular Biology of the Cell</i> , 2014, 25, 3277-3279.	2.1	1
80	Intracytoplasmic Signaling from Cilia in Ciliates. , 2016, , 51-63.		1
81	Introduction to Primary Cilia. <i>FASEB Journal</i> , 2006, 20, A436.	0.5	1
82	The primary cilium is a sensory organelle that regulates growth control and tissue homeostasis. <i>FASEB Journal</i> , 2006, 20, A437.	0.5	1
83	Ciliary Signaling Systems in Tissue Repair and Wound Healing. <i>FASEB Journal</i> , 2007, 21, A234.	0.5	0