

# Jeffrey D Axelrod

## List of Publications by Year in descending order

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57  
papers

6,389  
citations

147801

31  
h-index

175258

52  
g-index

144  
all docs

144  
docs citations

144  
times ranked

5704  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prickle isoform participation in distinct polarization events in the Drosophila eye. PLoS ONE, 2022, 17, e0262328.	2.5	3
2	Planar cell polarity signaling in the development of left-right asymmetry. Current Opinion in Cell Biology, 2020, 62, 61-69.	5.4	19
3	Endosomal Wnt signaling proteins control microtubule nucleation in dendrites. PLoS Biology, 2020, 18, e3000647.	5.6	39
4	Prickle isoforms determine handedness of helical morphogenesis. ELife, 2020, 9, .	6.0	9
5	VANGL2 regulates luminal epithelial organization and cell turnover in the mammary gland. Scientific Reports, 2019, 9, 7079.	3.3	11
6	FijiWingsPolarity: An open source toolkit for semi-automated detection of cell polarity. Fly, 2018, 12, 23-33.	1.7	5
7	Cyclin-dependent kinase control of motile ciliogenesis. ELife, 2018, 7, .	6.0	34
8	Wnt Signaling in Chronic Rhinosinusitis with Nasal Polyps. American Journal of Respiratory Cell and Molecular Biology, 2017, 56, 575-584.	2.9	27
9	Disruption of Core Planar Cell Polarity Signaling Regulates Renal Tubule Morphogenesis but Is Not Cystogenic. Current Biology, 2017, 27, 3120-3131.e4.	3.9	50
10	<i>Prickle1</i> mutation causes planar cell polarity and directional cell migration defects associated with cardiac outflow tract anomalies and other structural birth defects. Biology Open, 2016, 5, 323-335.	1.2	43
11	Prickle isoforms control the direction of tissue polarity by microtubule independent and dependent mechanisms. Biology Open, 2016, 5, 229-236.	1.2	18
12	Airway epithelial homeostasis and planar cell polarity signaling depend on multiciliated cell differentiation. JCI Insight, 2016, 1, .	5.0	63
13	The Phenotypic Effects of Royal Jelly on Wild-Type <i>D. melanogaster</i> Are Strain-Specific. PLoS ONE, 2016, 11, e0159456.	2.5	4
14	Clustering and Negative Feedback by Endocytosis in Planar Cell Polarity Signaling Is Modulated by Ubiquitinylation of Prickle. PLoS Genetics, 2015, 11, e1005259.	3.5	51
15	Observing planar cell polarity in multiciliated mouse airway epithelial cells. Methods in Cell Biology, 2015, 127, 37-54.	1.1	31
16	Prickle/spiny-legs isoforms control the polarity of the apical microtubule network in planar cell polarity. Development (Cambridge), 2014, 141, 2866-2874.	2.5	70
17	<i>prickle</i> modulates microtubule polarity and axonal transport to ameliorate seizures in flies. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11187-11192.	7.1	59
18	Methods for studying planar cell polarity. Methods, 2014, 68, 97-104.	3.8	10

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19	Microtubules provide directional information for core PCP function. <i>ELife</i> , 2014, 3, e02893.	6.0	104
20	Regulation of PCP by the Fat signaling pathway. <i>Genes and Development</i> , 2013, 27, 2207-2220.	5.9	119
21	Mathematical Modeling of Planar Cell Polarity Signaling. <i>Springer Proceedings in Mathematics</i> , 2013, , 27-35.	0.5	1
22	Asymmetric Protein Localization in Planar Cell Polarity. <i>Current Topics in Developmental Biology</i> , 2012, 101, 33-53.	2.2	84
23	Remodeling a Tissue: Subtraction Adds Insight. <i>Science Signaling</i> , 2012, 5, pe52.	3.6	0
24	Microtubules Enable the Planar Cell Polarity of Airway Cilia. <i>Current Biology</i> , 2012, 22, 2203-2212.	3.9	228
25	A universal analysis tool for the detection of asymmetric signal distribution in microscopic images. <i>Developmental Dynamics</i> , 2012, 241, 1301-1309.	1.8	7
26	Nuclear localization of Prickle2 is required to establish cell polarity during early mouse embryogenesis. <i>Developmental Biology</i> , 2012, 364, 138-148.	2.0	43
27	Pointing in the right direction: new developments in the field of planar cell polarity. <i>Nature Reviews Genetics</i> , 2011, 12, 385-391.	16.3	112
28	Mutations in Prickle Orthologs Cause Seizures in Flies, Mice, and Humans. <i>American Journal of Human Genetics</i> , 2011, 88, 138-149.	6.2	125
29	Versatile spectral methods for point set matching. <i>Pattern Recognition Letters</i> , 2011, 32, 731-739.	4.2	8
30	Modeling the control of planar cell polarity. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2011, 3, 588-605.	6.6	25
31	Planar Cell Polarity Enables Posterior Localization of Nodal Cilia and Left-Right Axis Determination during Mouse and <i>Xenopus</i> Embryogenesis. <i>PLoS ONE</i> , 2010, 5, e8999.	2.5	148
32	Delivering the Lateral Inhibition Punchline: It's All About the Timing. <i>Science Signaling</i> , 2010, 3, pe38.	3.6	30
33	Planar Cell Polarity Signaling: The Developing Cell's Compass. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a002964-a002964.	5.5	190
34	Bone morphogenetic protein 2 induces pulmonary angiogenesis via Wnt $\beta$ -catenin and Wnt $\beta$ -Rho $\rightarrow$ Rac1 pathways. <i>Journal of Cell Biology</i> , 2009, 184, 83-99.	5.2	194
35	Progress and challenges in understanding planar cell polarity signaling. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 964-971.	5.0	112
36	Studies of epithelial PCP. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 956.	5.0	3

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37	Planar cell polarity: from cells to tissues to organisms. <i>FASEB Journal</i> , 2009, 23, 308.1.	0.5	0
38	A Homozygous Mutation in Human PRICKLE1 Causes an Autosomal-Recessive Progressive Myoclonus Epilepsy-Ataxia Syndrome. <i>American Journal of Human Genetics</i> , 2008, 83, 572-581.	6.2	199
39	Bad hair days for mouse PCP mutants. <i>Nature Cell Biology</i> , 2008, 10, 1251-1253.	10.3	0
40	Basal bodies, kinocilia and planar cell polarity. <i>Nature Genetics</i> , 2008, 40, 10-11.	21.4	23
41	An Adjoint-Based Parameter Identification Algorithm Applied to Planar Cell Polarity Signaling. <i>IEEE Transactions on Automatic Control</i> , 2008, 53, 109-121.	5.7	29
42	Asymmetric Homotypic Interactions of the Atypical Cadherin Flamingo Mediate Intercellular Polarity Signaling. <i>Cell</i> , 2008, 133, 1093-1105.	28.9	216
43	Cell packing influences planar cell polarity signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 18800-18805.	7.1	55
44	Asymmetric Distribution of Prickle-Like 2 Reveals an Early Underlying Polarization of Vestibular Sensory Epithelia in the Inner Ear. <i>Journal of Neuroscience</i> , 2007, 27, 3139-3147.	3.6	135
45	Biology by numbers: mathematical modelling in developmental biology. <i>Nature Reviews Genetics</i> , 2007, 8, 331-340.	16.3	160
46	An Adjoint-Based Parameter Identification Algorithm Applied to Planar Cell Polarity Signaling. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2007, , 1-1.	5.4	0
47	Cell Shape in Proliferating Epithelia: A Multifaceted Problem. <i>Cell</i> , 2006, 126, 643-645.	28.9	20
48	Automatic Parameter Identification via the Adjoint Method, with Application to Understanding Planar Cell Polarity. , 2006, , .		5
49	Mathematical Modeling of Planar Cell Polarity to Understand Domineering Nonautonomy. <i>Science</i> , 2005, 307, 423-426.	12.6	275
50	Fidelity in planar cell polarity signalling. <i>Nature</i> , 2003, 421, 543-547.	27.8	294
51	A Second Canon. <i>Developmental Cell</i> , 2003, 5, 367-377.	7.0	1,294
52	Regulation of Frizzled by Fat-like Cadherins during Planar Polarity Signaling in the Drosophila Compound Eye. <i>Cell</i> , 2002, 108, 675-688.	28.9	332
53	Prickle Mediates Feedback Amplification to Generate Asymmetric Planar Cell Polarity Signaling. <i>Cell</i> , 2002, 109, 371-381.	28.9	393
54	A three-tiered mechanism for regulation of planar cell polarity. <i>Seminars in Cell and Developmental Biology</i> , 2002, 13, 217-224.	5.0	144

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55	Coupling Planar Cell Polarity Signaling to Morphogenesis. Scientific World Journal, The, 2002, 2, 434-454.	2.1	55
56	Drosophila Rho-Associated Kinase (Drok) Links Frizzled-Mediated Planar Cell Polarity Signaling to the Actin Cytoskeleton. Cell, 2001, 105, 81-91.	28.9	502
57	Frizzled signaling and the developmental control of cell polarity. Trends in Genetics, 1998, 14, 452-458.	6.7	176