

Jeffrey D Axelrod

List of Publications by Year in descending order

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Version: 2024-02-01

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	A Second Canon. <i>Developmental Cell</i> , 2003, 5, 367-377.	7.0	1,294
2	<i>Drosophila</i> Rho-Associated Kinase (Drok) Links Frizzled-Mediated Planar Cell Polarity Signaling to the Actin Cytoskeleton. <i>Cell</i> , 2001, 105, 81-91.	28.9	502
3	Prickle Mediates Feedback Amplification to Generate Asymmetric Planar Cell Polarity Signaling. <i>Cell</i> , 2002, 109, 371-381.	28.9	393
4	Regulation of Frizzled by Fat-like Cadherins during Planar Polarity Signaling in the <i>Drosophila</i> Compound Eye. <i>Cell</i> , 2002, 108, 675-688.	28.9	332
5	Fidelity in planar cell polarity signalling. <i>Nature</i> , 2003, 421, 543-547.	27.8	294
6	Mathematical Modeling of Planar Cell Polarity to Understand Domineering Nonautonomy. <i>Science</i> , 2005, 307, 423-426.	12.6	275
7	Microtubules Enable the Planar Cell Polarity of Airway Cilia. <i>Current Biology</i> , 2012, 22, 2203-2212.	3.9	228
8	Asymmetric Homotypic Interactions of the Atypical Cadherin Flamingo Mediate Intercellular Polarity Signaling. <i>Cell</i> , 2008, 133, 1093-1105.	28.9	216
9	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
10	Bone morphogenetic protein 2 induces pulmonary angiogenesis via Wnt β -catenin and Wnt β -Rho \rightarrow Rac1 pathways. <i>Journal of Cell Biology</i> , 2009, 184, 83-99.	5.2	194
11	Planar Cell Polarity Signaling: The Developing Cell's Compass. <i>Cold Spring Harbor Perspectives in Biology</i> , 2009, 1, a002964-a002964.	5.5	190
12	Frizzled signaling and the developmental control of cell polarity. <i>Trends in Genetics</i> , 1998, 14, 452-458.	6.7	176
13	Biology by numbers: mathematical modelling in developmental biology. <i>Nature Reviews Genetics</i> , 2007, 8, 331-340.	16.3	160
14	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
15	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
16	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
17	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
18	Regulation of PCP by the Fat signaling pathway. <i>Genes and Development</i> , 2013, 27, 2207-2220.	5.9	119

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19	Progress and challenges in understanding planar cell polarity signaling. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 964-971.	5.0	112
20	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
21	Microtubules provide directional information for core PCP function. <i>ELife</i> , 2014, 3, e02893.	6.0	104
22	Asymmetric Protein Localization in Planar Cell Polarity. <i>Current Topics in Developmental Biology</i> , 2012, 101, 33-53.	2.2	84
23	Prickle/spiny-legs isoforms control the polarity of the apical microtubule network in planar cell polarity. <i>Development (Cambridge)</i> , 2014, 141, 2866-2874.	2.5	70
24	Airway epithelial homeostasis and planar cell polarity signaling depend on multiciliated cell differentiation. <i>JCI Insight</i> , 2016, 1, .	5.0	63
25	<i>prickle</i> modulates microtubule polarity and axonal transport to ameliorate seizures in flies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11187-11192.	7.1	59
26	Coupling Planar Cell Polarity Signaling to Morphogenesis. <i>Scientific World Journal, The</i> , 2002, 2, 434-454.	2.1	55
27	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
28	Clustering and Negative Feedback by Endocytosis in Planar Cell Polarity Signaling Is Modulated by Ubiquitinylation of Prickle. <i>PLoS Genetics</i> , 2015, 11, e1005259.	3.5	51
29	Disruption of Core Planar Cell Polarity Signaling Regulates Renal Tubule Morphogenesis but Is Not Cystogenic. <i>Current Biology</i> , 2017, 27, 3120-3131.e4.	3.9	50
30	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
31	<i>Prickle1</i> mutation causes planar cell polarity and directional cell migration defects associated with cardiac outflow tract anomalies and other structural birth defects. <i>Biology Open</i> , 2016, 5, 323-335.	1.2	43
32	Endosomal Wnt signaling proteins control microtubule nucleation in dendrites. <i>PLoS Biology</i> , 2020, 18, e3000647.	5.6	39
33	Cyclin-dependent kinase control of motile ciliogenesis. <i>ELife</i> , 2018, 7, .	6.0	34
34	Observing planar cell polarity in multiciliated mouse airway epithelial cells. <i>Methods in Cell Biology</i> , 2015, 127, 37-54.	1.1	31
35	Delivering the Lateral Inhibition Punchline: It's All About the Timing. <i>Science Signaling</i> , 2010, 3, pe38.	3.6	30
36	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

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37	Wnt Signaling in Chronic Rhinosinusitis with Nasal Polyps. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 56, 575-584.	2.9	27
38	Modeling the control of planar cell polarity. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2011, 3, 588-605.	6.6	25
39	Basal bodies, kinocilia and planar cell polarity. <i>Nature Genetics</i> , 2008, 40, 10-11.	21.4	23
40	Cell Shape in Proliferating Epithelia: A Multifaceted Problem. <i>Cell</i> , 2006, 126, 643-645.	28.9	20
41	Planar cell polarity signaling in the development of left-right asymmetry. <i>Current Opinion in Cell Biology</i> , 2020, 62, 61-69.	5.4	19
42	Prickle isoforms control the direction of tissue polarity by microtubule independent and dependent mechanisms. <i>Biology Open</i> , 2016, 5, 229-236.	1.2	18
43	VANGL2 regulates luminal epithelial organization and cell turnover in the mammary gland. <i>Scientific Reports</i> , 2019, 9, 7079.	3.3	11
44	Methods for studying planar cell polarity. <i>Methods</i> , 2014, 68, 97-104.	3.8	10
45	Prickle isoforms determine handedness of helical morphogenesis. <i>ELife</i> , 2020, 9, .	6.0	9
46	Versatile spectral methods for point set matching. <i>Pattern Recognition Letters</i> , 2011, 32, 731-739.	4.2	8
47	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
48	Automatic Parameter Identification via the Adjoint Method, with Application to Understanding Planar Cell Polarity. , 2006, , .		5
49	FijiWingsPolarity: An open source toolkit for semi-automated detection of cell polarity. <i>Fly</i> , 2018, 12, 23-33.	1.7	5
50	The Phenotypic Effects of Royal Jelly on Wild-Type <i>D. melanogaster</i> Are Strain-Specific. <i>PLoS ONE</i> , 2016, 11, e0159456.	2.5	4
51	Studies of epithelial PCP. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 956.	5.0	3
52	Prickle isoform participation in distinct polarization events in the <i>Drosophila</i> eye. <i>PLoS ONE</i> , 2022, 17, e0262328.	2.5	3
53	Mathematical Modeling of Planar Cell Polarity Signaling. <i>Springer Proceedings in Mathematics</i> , 2013, , 27-35.	0.5	1
54	Bad hair days for mouse PCP mutants. <i>Nature Cell Biology</i> , 2008, 10, 1251-1253.	10.3	0

#	ARTICLE	IF	CITATIONS
55	Remodeling a Tissue: Subtraction Adds Insight. Science Signaling, 2012, 5, pe52.	3.6	0
56	Planar cell polarity: from cells to tissues to organisms. FASEB Journal, 2009, 23, 308.1.	0.5	0
57	An Adjoint-Based Parameter Identification Algorithm Applied to Planar Cell Polarity Signaling. IEEE Transactions on Circuits and Systems I: Regular Papers, 2007, , 1-1.	5.4	0