Jeremiah J Zartman

List of Publications by Year
in descending order

51	1,192	361413	454955
papers	citations	20 h-index	30 g-index

60	60	60	1392
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coordination of Patterning and Growth by the Morphogen DPP. Current Biology, 2014, 24, R245-R255.	3.9	142
2	A high-throughput template for optimizing Drosophila organ culture with response-surface methods. Development (Cambridge), 2013, 140, 667-674.	2.5	71
3	A Combinatorial Code for Pattern Formation in Drosophila Oogenesis. Developmental Cell, 2008, 15, 725-737.	7.0	65
4	Flow-visualization during macrovoid pore formation in dry-cast cellulose acetate membranes. Journal of Membrane Science, 2003, 211, 71-90.	8.2	52
5	Potassium channel activity controls breast cancer metastasis by affecting Î²-catenin signaling. Cell Death and Disease, 2019, 10, 180.	6.3	51
6	Sizing it up: The mechanical feedback hypothesis of organ growth regulation. Seminars in Cell and Developmental Biology, 2014, 35, 73-81.	5.0	48
7	Preclinical study of a Kv11.1 potassium channel activator as antineoplastic approach for breast cancer. Oncotarget, 2018, 9, 3321-3337.	1.8	41
8	Capabilities and Limitations of Tissue Size Control through Passive Mechanical Forces. PLoS Computational Biology, 2015, 11, e1004679.	3.2	39
9	Decoding Calcium Signaling Dynamics during Drosophila Wing Disc Development. Biophysical Journal, 2019, 116, 725-740.	0.5	39
10	Rab11b-mediated integrin recycling promotes brain metastatic adaptation and outgrowth. Nature Communications, 2020, 11, 3017.	12.8	38
11	Macrovoid pore formation in dry-cast cellulose acetate membranes: buoyancy studies. Journal of Membrane Science, 2002, 205, 11-21.	8.2	36
12	Feedback control of the EGFR signaling gradient: superposition of domain-splitting events inDrosophilaoogenesis. Development (Cambridge), 2009, 136, 2903-2911.	2.5	36
13	Multi-scale computational study of the mechanical regulation of cell mitotic rounding in epithelia. PLoS Computational Biology, 2017, 13, e1005533.	3.2	35
14	Unit Operations of Tissue Development: Epithelial Folding. Annual Review of Chemical and Biomolecular Engineering, 2010, 1, 231-246.	6.8	34
15	Patterning of wound-induced intercellular Ca2+flashes in a developing epithelium. Physical Biology, 2015, 12, 056005.	1.8	34
16	Calcium as a signal integrator in developing epithelial tissues. Physical Biology, 2018, 15, 051001.	1.8	34
17	Release of Applied Mechanical Loading Stimulates Intercellular Calcium Waves in Drosophila WingÂDiscs. Biophysical Journal, 2017, 113, 491-501.	0.5	32
18	Microfluidic device design, fabrication, and testing protocols. Protocol Exchange, 0, , .	0.3	31

#	Article	IF	Citations
19	Cultivation and Live Imaging of Drosophila Imaginal Discs. Methods in Molecular Biology, 2016, 1478, 203-213.	0.9	27
20	Epithelial organ shape is generated by patterned actomyosin contractility and maintained by the extracellular matrix. PLoS Computational Biology, 2020, 16, e1008105.	3.2	26
21	Pattern formation by a moving morphogen source. Physical Biology, 2011, 8, 045003.	1.8	26
22	Bistability coordinates activation of the EGFR and DPP pathways in Drosophila vein differentiation. Molecular Systems Biology, 2009, 5, 278.	7.2	23
23	Expression patterns of cadherin genes in Drosophila oogenesis. Gene Expression Patterns, 2009, 9, 31-36.	0.8	22
24	An inverse small molecule screen to design a chemically defined medium supporting long-term growth of Drosophila cell lines. Molecular BioSystems, 2014, 10, 2713-2723.	2.9	19
25	Principles for the design of multicellular engineered living systems. APL Bioengineering, 2022, 6, 010903.	6.2	17
26	Cad74A is regulated by BR and is required for robust dorsal appendage formation in Drosophila oogenesis. Developmental Biology, 2008, 322, 289-301.	2.0	16
27	Microfluidics on the fly: Inexpensive rapid fabrication of thermally laminated microfluidic devices for live imaging and multimodal perturbations of multicellular systems. Biomicrofluidics, 2019, 13, 024111.	2.4	16
28	Reverse-engineering organogenesis through feedback loops between model systems. Current Opinion in Biotechnology, 2018, 52, 1-8.	6.6	15
29	Interplay between morphogenâ€directed positional information systems and physiological signaling. Developmental Dynamics, 2020, 249, 328-341.	1.8	15
30	Multi-cellular engineered living systems: building a community around responsible research on emergence. Biofabrication, 2019, 11, 043001.	7.1	13
31	Macrovoid growth during polymer membrane casting. Desalination, 2002, 145, 17-23.	8.2	12
32	Whole blood clot optical clearing for nondestructive 3D imaging and quantitative analysis. Biomedical Optics Express, 2017, 8, 3671.	2.9	12
33	Combined Scaffold Evaluation and Systemsâ€Level Transcriptomeâ€Based Analysis for Accelerated Lead Optimization Reveals Ribosomal Targeting Spirooxindole Cyclopropanes. ChemMedChem, 2019, 14, 1653-1661.	3.2	11
34	Tools to reverse-engineer multicellular systems: case studies using the fruit fly. Journal of Biological Engineering, 2019, 13, 33.	4.7	9
35	Robust cell tracking in epithelial tissues through identification of maximum common subgraphs. Journal of the Royal Society Interface, 2016, 13, 20160725.	3.4	8
36	From spikes to intercellular waves: Tuning intercellular calcium signaling dynamics modulates organ size control. PLoS Computational Biology, 2021, 17, e1009543.	3.2	8

#	Article	IF	Citations
37	Multiscale Models Coupling Chemical Signaling and Mechanical Properties for Studying Tissue Growth. , 2020, , 173-195.		5
38	Spatiotemporal patterning of polyamines in Drosophila development. Amino Acids, 2015, 47, 2665-2670.	2.7	4
39	A new registration approach for dynamic analysis of calcium signals in organs. , 2018, 2018, 934-937.		4
40	Enhancer Organization: Transistor with a Twist or Something in a Different Vein?. Current Biology, 2007, 17, R1048-R1050.	3.9	3
41	On-chip three-dimensional tissue histology for microbiopsies. Biomicrofluidics, 2016, 10, .	2.4	3
42	Rapid Fabrication of Custom Microfluidic Devices for Research and Educational Applications. Journal of Visualized Experiments, 2019, , .	0.3	2
43	Pinching and pushing: fold formation in the Drosophila dorsal epidermis. Biophysical Journal, 2021, 120, 4202-4213.	0.5	2
44	Rational Design and Identification of Harmineâ€Inspired, N â€Heterocyclic DYRK1A Inhibitors Employing a Functional Genomic In Vivo Drosophila Model System**. ChemMedChem, 2022, , .	3.2	2
45	MAPPER: An Open-Source, High-Dimensional Image Analysis Pipeline Unmasks Differential Regulation of Drosophila Wing Features. Frontiers in Genetics, 2022, 13, 869719.	2.3	2
46	Organ Culture Methods for the Drosophila Wing Imaginal Disc. , 2018, , 145-164.		1
47	Modeling intercellular calcium dynamics in an epithelial organ using Dynamic Mode Decomposition. IFAC-PapersOnLine, 2018, 51, 120-123.	0.9	0
48	Mapping the calcium signalsome during Drosophila wing development. IFAC-PapersOnLine, 2018, 51, 108-109.	0.9	0
49	Single cell analysis of oscillatory Ca2+ signalling in epithelial cells. IFAC-PapersOnLine, 2018, 51, 116-117.	0.9	0
50	The Emerging Field Of Synthetic Developmental Biology. , 2018, , .		0
51	Front Cover: Rational Design and Identification of Harmineâ€Inspired, Nâ€Heterocyclic DYRK1A Inhibitors Employing a Functional Genomic In Vivo Drosophila Model System (ChemMedChem) Tj ETQq1 1 0.784314 rgBT /Over	3.2	0