

Jesse C Gatlin

List of Publications by Year in descending order

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33
papers

1,199
citations

394421

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h-index

454955

30
g-index

35
all docs

35
docs citations

35
times ranked

1577
citing authors

#	ARTICLE	IF	CITATIONS
1	Concepts Organelle Scaling. , 2021, , 107-112.		1
2	The Cytoskeleton and Its Roles in Self-Organization Phenomena: Insights from <i>Xenopus</i> Egg Extracts. <i>Cells</i> , 2021, 10, 2197.	4.1	1
3	Mathematical modeling accurately predicts the dynamics and scaling of nuclear growth in discrete cytoplasmic volumes. <i>Journal of Theoretical Biology</i> , 2021, 533, 110936.	1.7	1
4	Instance-Level Microtubule Tracking. <i>IEEE Transactions on Medical Imaging</i> , 2020, 39, 2061-2075.	8.9	7
5	Microtubule Growth Rates Are Sensitive to Global and Local Changes in Microtubule Plus-End Density. <i>Current Biology</i> , 2020, 30, 3016-3023.e3.	3.9	23
6	Microtubule-dependent pushing forces contribute to long-distance aster movement and centration in <i>Xenopus laevis</i> egg extracts. <i>Molecular Biology of the Cell</i> , 2020, 31, 2791-2802.	2.1	14
7	Microfluidic encapsulation of <i>Xenopus laevis</i> cell-free extracts using hydrogel photolithography. <i>STAR Protocols</i> , 2020, 1, 100221.	1.2	1
8	Light-inducible activation of cell cycle progression in <i>Xenopus</i> egg extracts under microfluidic confinement. <i>Lab on A Chip</i> , 2019, 19, 3499-3511.	6.0	3
9	Induction of a Spindle-Assembly-Competent M Phase in <i>Xenopus</i> Egg Extracts. <i>Current Biology</i> , 2019, 29, 1273-1285.e5.	3.9	4
10	Nucleoplasmin is a limiting component in the scaling of nuclear size with cytoplasmic volume. <i>Journal of Cell Biology</i> , 2019, 218, 4063-4078.	5.2	33
11	Microfluidic Encapsulation of Demembrated Sperm Nuclei in <i>Xenopus</i> Egg Extracts. <i>Cold Spring Harbor Protocols</i> , 2018, 2018, pdb.prot102913.	0.3	14
12	Fabrication of Functional Biomaterial Microstructures by in Situ Photopolymerization and Photodegradation. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 3078-3087.	5.2	18
13	Isolation and Demembration of <i>Xenopus</i> Sperm Nuclei. <i>Cold Spring Harbor Protocols</i> , 2018, 2018, pdb.prot099044.	0.3	24
14	Tau-based fluorescent protein fusions to visualize microtubules. <i>Cytoskeleton</i> , 2017, 74, 221-232.	2.0	15
15	Use of <i>Xenopus</i> cell-free extracts to study size regulation of subcellular structures. <i>International Journal of Developmental Biology</i> , 2016, 60, 277-288.	0.6	3
16	Centrosomal clustering contributes to chromosomal instability and cancer. <i>Current Opinion in Biotechnology</i> , 2016, 40, 113-118.	6.6	37
17	Nanoparticle Targeting and Cholesterol Flux Through Scavenger Receptor Type B-1 Inhibits Cellular Exosome Uptake. <i>Scientific Reports</i> , 2015, 5, 15724.	3.3	69
18	Spatially segregated transcription and translation in cells of the endomembrane-containing bacterium <i>Gemmata obscuriglobus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11067-11072.	7.1	21

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19	Changes in Cytoplasmic Volume Are Sufficient to Drive Spindle Scaling. <i>Science</i> , 2013, 342, 853-856.	12.6	175
20	Directly probing the mechanical properties of the spindle and its matrix. <i>Journal of Cell Biology</i> , 2010, 188, 481-489.	5.2	43
21	Microtubule motors in eukaryotic spindle assembly and maintenance. <i>Seminars in Cell and Developmental Biology</i> , 2010, 21, 248-254.	5.0	46
22	Condensin Regulates the Stiffness of Vertebrate Centromeres. <i>Molecular Biology of the Cell</i> , 2009, 20, 2371-2380.	2.1	129
23	Dynamic adhesions and MARCKS in melanoma cells. <i>Journal of Cell Science</i> , 2009, 122, 2300-2310.	2.0	33
24	Functional Overlap of Microtubule Assembly Factors in Chromatin-Promoted Spindle Assembly. <i>Molecular Biology of the Cell</i> , 2009, 20, 2766-2773.	2.1	38
25	Spindle Fusion Requires Dynein-Mediated Sliding of Oppositely Oriented Microtubules. <i>Current Biology</i> , 2009, 19, 287-296.	3.9	75
26	Spindle Assembly in the Absence of a RanGTP Gradient Requires Localized CPC Activity. <i>Current Biology</i> , 2009, 19, 1210-1215.	3.9	86
27	Data Harvesting from Fields of Spindles. <i>Cell</i> , 2009, 138, 426-428.	28.9	0
28	Growth cone responses to growth and chemotropic factors. <i>European Journal of Neuroscience</i> , 2008, 28, 268-278.	2.6	27
29	NPY and its involvement in axon guidance, neurogenesis, and feeding. <i>Nutrition</i> , 2008, 24, 860-868.	2.4	62
30	Myristoylated, Alanine-rich C-Kinase Substrate Phosphorylation Regulates Growth Cone Adhesion and Pathfinding. <i>Molecular Biology of the Cell</i> , 2006, 17, 5115-5130.	2.1	52
31	Ribozyme Cleavage Reveals Connections between mRNA Release from the Site of Transcription and Pre-mRNA Processing. <i>Molecular Cell</i> , 2005, 20, 747-758.	9.7	48
32	Eicosanoid Activation of Protein Kinase C μ . <i>Journal of Biological Chemistry</i> , 2003, 278, 21168-21177.	3.4	28
33	Growth Cone Collapse Induced by Semaphorin 3A Requires 12/15-Lipoxygenase. <i>Journal of Neuroscience</i> , 2002, 22, 4932-4941.	3.6	64