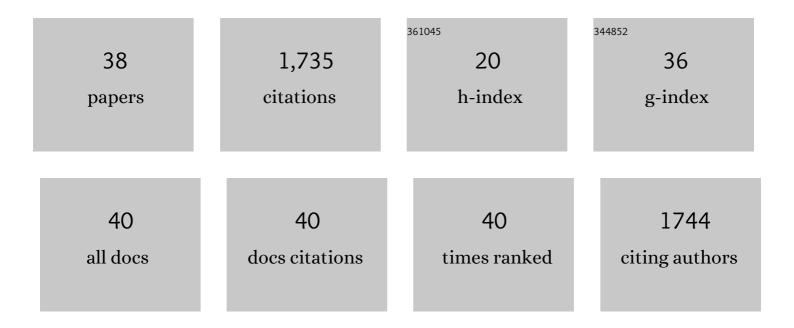
## M Shane Hutson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Forces for Morphogenesis Investigated with Laser Microsurgery and Quantitative Modeling. Science, 2003, 300, 145-149.	6.0	469
2	Video force microscopy reveals the mechanics of ventral furrow invagination in Drosophila. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22111-22116.	3.3	155
3	Probing embryonic tissue mechanics with laser hole drilling. Physical Biology, 2009, 6, 036004.	0.8	124
4	CellFIT: A Cellular Force-Inference Toolkit Using Curvilinear Cell Boundaries. PLoS ONE, 2014, 9, e99116.	1.1	94
5	Combining Laser Microsurgery and Finite Element Modeling to Assess Cell-Level Epithelial Mechanics. Biophysical Journal, 2009, 97, 3075-3085.	0.2	80
6	Plasma and Cavitation Dynamics during Pulsed Laser MicrosurgeryinÂvivo. Physical Review Letters, 2007, 99, 158104.	2.9	74
7	Enabling userâ€guided segmentation and tracking of surface″abeled cells in time″apse image sets of living tissues. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2012, 81A, 409-418.	1.1	60
8	Chemical-PDMS binding kinetics and implications for bioavailability in microfluidic devices. Lab on A Chip, 2019, 19, 864-874.	3.1	57
9	Computational Model of Secondary Palate Fusion and Disruption. Chemical Research in Toxicology, 2017, 30, 965-979.	1.7	55
10	Multiple Mechanisms Drive Calcium Signal Dynamics around Laser-Induced Epithelial Wounds. Biophysical Journal, 2017, 113, 1623-1635.	0.2	47
11	DRhoGEF2 Regulates Cellular Tension and Cell Pulsations in the Amnioserosa during Drosophila Dorsal Closure. PLoS ONE, 2011, 6, e23964.	1.1	44
12	Thermal diffusion and chemical kinetics in laminar biomaterial due to heating by a free-electron laser. Physical Review E, 2002, 65, 061906.	0.8	36
13	Cell Sorting in Three Dimensions: Topology, Fluctuations, and Fluidlike Instabilities. Physical Review Letters, 2008, 101, 148105.	2.9	36
14	Computational modeling and simulation of genital tubercle development. Reproductive Toxicology, 2016, 64, 151-161.	1.3	34
15	Apical Oscillations in Amnioserosa Cells: Basolateral Coupling and Mechanical Autonomy. Biophysical Journal, 2013, 105, 255-265.	0.2	32
16	Raman-shifted alexandrite laser for soft tissue ablation in the 6- to 7-µm wavelength range. Biomedical Optics Express, 2011, 2, 1275.	1.5	30
17	Wavelength-Dependent Conformational Changes in Collagen after Mid-Infrared Laser Ablation of Cornea. Biophysical Journal, 2008, 94, 1359-1366.	0.2	26
18	Enhancer of Rudimentary Homolog Affects the Replication Stress Response through Regulation of RNA Processing. Molecular and Cellular Biology, 2015, 35, 2979-2990.	1.1	26

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19	Cellular mechanics of germ band retraction in Drosophila. Developmental Biology, 2013, 384, 205-213.	0.9	23
20	A Microfluidic-Enabled Mechanical Microcompressor for the Immobilization of Live Single- and Multi-Cellular Specimens. Microscopy and Microanalysis, 2014, 20, 141-151.	0.2	23
21	Proteolytic activation of Growth-blocking peptides triggers calcium responses through the GPCR Mthl10 during epithelial wound detection. Developmental Cell, 2021, 56, 2160-2175.e5.	3.1	23
22	Interplay of wavelength, fluence and spot-size in free-electron laser ablation of cornea. Optics Express, 2009, 17, 9840.	1.7	20
23	Holographic UV laser microsurgery. Biomedical Optics Express, 2011, 2, 2590.	1.5	20
24	Amnioserosa development and function in <i>Drosophila</i> embryogenesis: Critical mechanical roles for an extraembryonic tissue. Developmental Dynamics, 2016, 245, 558-568.	0.8	20
25	Mechanical aspects of developmental biology: perspectives <i>On Growth and Form</i> in the (post)-genomic age. Physical Biology, 2008, 5, 015001.	0.8	19
26	Wavelength-Dependent Collagen Fragmentation during Mid-IR Laser Ablation. Biophysical Journal, 2006, 91, 1424-1432.	0.2	18
27	Practical aspects of the cellular force inference toolkit (CellFIT). Methods in Cell Biology, 2015, 125, 331-351.	0.5	15
28	Comparison of OPO and Mark-III FEL for tissue ablation at 6.45 $\hat{l}^1\!/\!4$ m. , 2002, 4633, 194.		13
29	Advantage of the Mark-III FEL for biophysical research and biomedical applications. Journal of Synchrotron Radiation, 2003, 10, 354-357.	1.0	13
30	Modeling cell elongation during germ band retraction: cell autonomy versus applied anisotropic stress. New Journal of Physics, 2014, 16, 055003.	1.2	12
31	Pathway to a phenocopy: Heat stress effects in early embryogenesis. Developmental Dynamics, 2016, 245, 402-413.	0.8	7
32	Zones of cellular damage around pulsed-laser wounds. PLoS ONE, 2021, 16, e0253032.	1.1	7
33	Efficacy and predictability of soft tissue ablation using a prototype Raman-shifted alexandrite laser. Journal of Biomedical Optics, 2015, 20, 105004.	1.4	5
34	Elongated Cells Drive Morphogenesis in a Surface-Wrapped Finite-Element Model of Germband Retraction. Biophysical Journal, 2019, 117, 157-169.	0.2	5
35	The Attenuation Distribution Across the Long Axis of Breast Cancer Liver Metastases at CT: A Quantitative Biomarker for Predicting Overall Survival. American Journal of Roentgenology, 2018, 210, W1-W7.	1.0	4
36	Optic nerve sheath fenestration using a Ramanâ€shifted alexandrite laser. Lasers in Surgery and Medicine, 2016, 48, 270-280.	1.1	3

#	Article	IF	CITATIONS
37	Mounting Drosophila pupae for laser ablation and live imaging of the dorsal thorax. STAR Protocols, 2022, 3, 101396.	0.5	3
38	Cellular diversity heals. Nature Physics, 2018, 14, 639-641.	6.5	0