Michael S Sacks

List of Publications by Citations

140 papers	6,694 citations	42 h-index	79 g-index
149 ext. papers	7,600 ext. citations	4.5 avg, IF	6.23 L-index

#	Paper	IF	Citations
140	Incorporation of experimentally-derived fiber orientation into a structural constitutive model for planar collagenous tissues. *Journal of Biomechanical Engineering*, **2003**, 125, 280-7	2.1	296
139	Biaxial mechanical properties of the native and glutaraldehyde-treated aortic valve cusp: Part II--A structural constitutive model. *Journal of Biomechanical Engineering*, **2000**, 122, 327-35	2.1	294
138	Biaxial Mechanical Evaluation of Planar Biological Materials. *Journal of Elasticity*, **2000**, 61, 199-246	1.5	287
137	An immersogeometric variational framework for fluid-structure interaction: application to bioprosthetic heart valves. *Computer Methods in Applied Mechanics and Engineering*, **2015**, 284, 1005-1053	5.7	271
136	On the biomechanics of heart valve function. *Journal of Biomechanics*, **2009**, 42, 1804-24	2.9	267
135	Heart valve function: a biomechanical perspective. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2007**, 362, 1369-91	5.8	267
134	Multiaxial mechanical behavior of biological materials. *Annual Review of Biomedical Engineering*, **2003**, 5, 251-84	12	228
133	A small angle light scattering device for planar connective tissue microstructural analysis. *Annals of Biomedical Engineering*, **1997**, 25, 678-89	4.7	227
132	Bioengineering challenges for heart valve tissue engineering. *Annual Review of Biomedical Engineering*, **2009**, 11, 289-313	12	208
131	Fluid-structure interaction analysis of bioprosthetic heart valves: Significance of arterial wall deformation. *Computational Mechanics*, **2014**, 54, 1055-1071	4	184
130	Correlation between heart valve interstitial cell stiffness and transvalvular pressure: implications for collagen biosynthesis. *American Journal of Physiology - Heart and Circulatory Physiology*, **2006**, 290, H224-31	5.2	170
129	Dynamic and fluid-structure interaction simulations of bioprosthetic heart valves using parametric design with T-splines and Fung-type material models. *Computational Mechanics*, **2015**, 55, 1211-1225	4	158
128	Synergistic effects of cyclic tension and transforming growth factor-beta1 on the aortic valve myofibroblast. *Cardiovascular Pathology*, **2007**, 16, 268-76	3.8	139
127	Biaixal stress-stretch behavior of the mitral valve anterior leaflet at physiologic strain rates. *Annals of Biomedical Engineering*, **2006**, 34, 315-25	4.7	138
126	Electromechanical cardioplasty using a wrapped elasto-conductive epicardial mesh. *Science Translational Medicine*, **2016**, 8, 344ra86	17.5	136
125	Collagen fiber disruption occurs independent of calcification in clinically explanted bioprosthetic heart valves. *Journal of Biomedical Materials Research Part B*, **2002**, 62, 359-71		133
124	Quantification of the fiber architecture and biaxial mechanical behavior of porcine intestinal submucosa. *Journal of Biomedical Materials Research Part B*, **1999**, 46, 1-10		124

123	Orthotropic mechanical properties of chemically treated bovine pericardium. *Annals of Biomedical Engineering*, **1998**, 26, 892-902	4.7	121
122	In-vivo dynamic deformation of the mitral valve anterior leaflet. *Annals of Thoracic Surgery*, **2006**, 82, 1369-77	2.7	111
121	Mechanisms of bioprosthetic heart valve failure: fatigue causes collagen denaturation and glycosaminoglycan loss. *Journal of Biomedical Materials Research Part B*, **1999**, 46, 44-50		110
120	The aortic valve microstructure: effects of transvalvular pressure. *Journal of Biomedical Materials Research Part B*, **1998**, 41, 131-41		109
119	The effects of cellular contraction on aortic valve leaflet flexural stiffness. *Journal of Biomechanics*, **2006**, 39, 88-96	2.9	96
118	Simulation of planar soft tissues using a structural constitutive model: Finite element implementation and validation. *Journal of Biomechanics*, **2014**, 47, 2043-54	2.9	95
117	The relation between collagen fibril kinematics and mechanical properties in the mitral valve anterior leaflet. *Journal of Biomechanical Engineering*, **2007**, 129, 78-87	2.1	94
116	In vivo three-dimensional surface geometry of abdominal aortic aneurysms. *Annals of Biomedical Engineering*, **1999**, 27, 469-79	4.7	87
115	Planar biaxial creep and stress relaxation of the mitral valve anterior leaflet. *Annals of Biomedical Engineering*, **2006**, 34, 1509-18	4.7	86
114	On the in vivo deformation of the mitral valve anterior leaflet: effects of annular geometry and referential configuration. *Annals of Biomedical Engineering*, **2012**, 40, 1455-67	4.7	78
113	In-situ deformation of the aortic valve interstitial cell nucleus under diastolic loading. *Journal of Biomechanical Engineering*, **2007**, 129, 880-89	2.1	73
112	A novel crosslinking method for improved tear resistance and biocompatibility of tissue based biomaterials. *Biomaterials*, **2015**, 66, 83-91	15.6	63
111	Dynamic in vitro quantification of bioprosthetic heart valve leaflet motion using structured light projection. *Annals of Biomedical Engineering*, **2001**, 29, 963-73	4.7	62
110	An inverse modeling approach for stress estimation in mitral valve anterior leaflet valvuloplasty for in-vivo valvular biomaterial assessment. *Journal of Biomechanics*, **2014**, 47, 2055-63	2.9	60
109	Heart Valve Biomechanics and Underlying Mechanobiology. *Comprehensive Physiology*, **2016**, 6, 1743-1780	7.7	56
108	From single fiber to macro-level mechanics: A structural finite-element model for elastomeric fibrous biomaterials. *Journal of the Mechanical Behavior of Biomedical Materials*, **2014**, 39, 146-61	4.1	56
107	Effect of Geometry on the Leaflet Stresses in Simulated Models of Congenital Bicuspid Aortic Valves. *Cardiovascular Engineering and Technology*, **2011**, 2, 48-56	2.2	56
106	A framework for designing patient-specific bioprosthetic heart valves using immersogeometric fluid-structure interaction analysis. *International Journal for Numerical Methods in Biomedical Engineering*, **2018**, 34, e2938	2.6	56

105	Immersogeometric cardiovascular fluid-structure interaction analysis with divergence-conforming B-splines. *Computer Methods in Applied Mechanics and Engineering*, **2017**, 314, 408-472	5.7	52
104	Optimal bovine pericardial tissue selection sites. I. Fiber architecture and tissue thickness measurements. *Journal of Biomedical Materials Research Part B*, **1998**, 39, 207-14		52
103	A meso-scale layer-specific structural constitutive model of the mitral heart valve leaflets. *Acta Biomaterialia*, **2016**, 32, 238-255	10.8	47
102	On the effects of leaflet microstructure and constitutive model on the closing behavior of the mitral valve. *Biomechanics and Modeling in Mechanobiology*, **2015**, 14, 1281-302	3.8	46
101	On the presence of affine fibril and fiber kinematics in the mitral valve anterior leaflet. *Biophysical Journal*, **2015**, 108, 2074-87	2.9	44
100	Quantification and simulation of layer-specific mitral valve interstitial cells deformation under physiological loading. *Journal of Theoretical Biology*, **2015**, 373, 26-39	2.3	43
99	Biomechanical Behavior of Bioprosthetic Heart Valve Heterograft Tissues: Characterization, Simulation, and Performance. *Cardiovascular Engineering and Technology*, **2016**, 7, 309-351	2.2	43
98	A novel constitutive model for passive right ventricular myocardium: evidence for myofiber-collagen fiber mechanical coupling. *Biomechanics and Modeling in Mechanobiology*, **2017**, 16, 561-581	3.8	41
97	Surface geometric analysis of anatomic structures using biquintic finite element interpolation. *Annals of Biomedical Engineering*, **2000**, 28, 598-611	4.7	38
96	Ex Vivo Methods for Informing Computational Models of the Mitral Valve. *Annals of Biomedical Engineering*, **2017**, 45, 496-507	4.7	36
95	Noggin attenuates the osteogenic activation of human valve interstitial cells in aortic valve sclerosis. *Cardiovascular Research*, **2013**, 98, 402-10	9.9	36
94	Quantification of the collagen fibre architecture of human cranial dura mater. *Journal of Anatomy*, **1998**, 192 (Pt 1), 99-106	2.9	36
93	Optimal bovine pericardial tissue selection sites. II. Cartographic analysis. *Journal of Biomedical Materials Research Part B*, **1998**, 39, 215-21		34
92	A novel fibre-ensemble level constitutive model for exogenous cross-linked collagenous tissues. *Interface Focus*, **2016**, 6, 20150090	3.9	34
91	Mitral valve leaflet remodelling during pregnancy: insights into cell-mediated recovery of tissue homeostasis. *Journal of the Royal Society Interface*, **2016**, 13,	4.1	33
90	A functionally graded material model for the transmural stress distribution of the aortic valve leaflet. *Journal of Biomechanics*, **2017**, 54, 88-95	2.9	32
89	Osteopontin-CD44v6 interaction mediates calcium deposition via phospho-Akt in valve interstitial cells from patients with noncalcified aortic valve sclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 2086-94	9.4	32
88	Bioprosthetic heart valve heterograft biomaterials: structure, mechanical behavior and computational simulation. *Expert Review of Medical Devices*, **2006**, 3, 817-34	3.5	32

87	Computational methods for the aortic heart valve and its replacements. *Expert Review of Medical Devices*, **2017**, 14, 849-866	3.5	31
86	A structural constitutive model for chemically treated planar tissues under biaxial loading. *Computational Mechanics*, **2000**, 26, 243-249	4	31
85	Regulation of valve interstitial cell homeostasis by mechanical deformation: implications for heart valve disease and surgical repair. *Journal of the Royal Society Interface*, **2017**, 14,	4.1	30
84	Polarized light spatial frequency domain imaging for non-destructive quantification of soft tissue fibrous structures. *Biomedical Optics Express*, **2015**, 6, 1520-33	3.5	30
83	Pregnancy-induced remodeling of collagen architecture and content in the mitral valve. *Annals of Biomedical Engineering*, **2014**, 42, 2058-71	4.7	30
82	Scaling digital twins from the artisanal to the industrial. *Nature Computational Science*, **2021**, 1, 313-320		30
81	Collagen fiber orientation as quantified by small angle light scattering in wounds treated with transforming growth factor-beta2 and its neutalizing antibody. *Wound Repair and Regeneration*, **1999**, 7, 179-86	3.6	29
80	Geometric characterization and simulation of planar layered elastomeric fibrous biomaterials. *Acta Biomaterialia*, **2015**, 12, 93-101	10.8	28
79	An anisotropic constitutive model for immersogeometric fluid-structure interaction analysis of bioprosthetic heart valves. *Journal of Biomechanics*, **2018**, 74, 23-31	2.9	28
78	Fabrication of elastomeric scaffolds with curvilinear fibrous structures for heart valve leaflet engineering. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 3101-6	5.4	28
77	Insights into regional adaptations in the growing pulmonary artery using a meso-scale structural model: effects of ascending aorta impingement. *Journal of Biomechanical Engineering*, **2014**, 136, 021009	2.1	28
76	Mitral Valve Chordae Tendineae: Topological and Geometrical Characterization. *Annals of Biomedical Engineering*, **2017**, 45, 378-393	4.7	26
75	A comprehensive pipeline for multi-resolution modeling of the mitral valve: Validation, computational efficiency, and predictive capability. *International Journal for Numerical Methods in Biomedical Engineering*, **2018**, 34, e2921	2.6	25
74	A Contemporary Look at Biomechanical Models of Myocardium. *Annual Review of Biomedical Engineering*, **2019**, 21, 417-442	12	24
73	Modeling the response of exogenously crosslinked tissue to cyclic loading: The effects of permanent set. *Journal of the Mechanical Behavior of Biomedical Materials*, **2017**, 75, 336-350	4.1	24
72	An integrated inverse model-experimental approach to determine soft tissue three-dimensional constitutive parameters: application to post-infarcted myocardium. *Biomechanics and Modeling in Mechanobiology*, **2018**, 17, 31-53	3.8	23
71	Biomechanical and Hemodynamic Measures of Right Ventricular Diastolic Function: Translating Tissue Biomechanics to Clinical Relevance. *Journal of the American Heart Association*, **2017**, 6,	6	22
70	Thinner biological tissues induce leaflet flutter in aortic heart valve replacements. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 19007-19016	11.5	21

69	A noninvasive method for the determination of in vivo mitral valve leaflet strains. *International Journal for Numerical Methods in Biomedical Engineering*, **2018**, 34, e3142	2.6	20
68	A triphasic constrained mixture model of engineered tissue formation under in vitro dynamic mechanical conditioning. *Biomechanics and Modeling in Mechanobiology*, **2016**, 15, 293-316	3.8	19
67	On the simulation of mitral valve function in health, disease, and treatment. *Journal of Biomechanical Engineering*, **2019**,	2.1	18
66	Non-Destructive Reflectance Mapping of Collagen Fiber Alignment in Heart Valve Leaflets. *Annals of Biomedical Engineering*, **2019**, 47, 1250-1264	4.7	18
65	Patient-Specific Modeling of Heart Valves: From Image to Simulation. *Lecture Notes in Computer Science*, **2013**, 7945, 141-149	0.9	18
64	Transmural remodeling of right ventricular myocardium in response to pulmonary arterial hypertension. *APL Bioengineering*, **2017**, 1,	6.6	18
63	In vivo biomechanical assessment of triglycidylamine crosslinked pericardium. *Biomaterials*, **2007**, 28, 5390-8	15.6	18
62	On the in vivo function of the mitral heart valve leaflet: insights into tissue-interstitial cell biomechanical coupling. *Biomechanics and Modeling in Mechanobiology*, **2017**, 16, 1613-1632	3.8	17
61	Large strain stimulation promotes extracellular matrix production and stiffness in an elastomeric scaffold model. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 62, 619-635	4.1	17
60	GENE EXPRESSION AND COLLAGEN FIBER MICROMECHANICAL INTERACTIONS OF THE SEMILUNAR HEART VALVE INTERSTITIAL CELL. *Cellular and Molecular Bioengineering*, **2012**, 5, 254-265	3.9	17
59	Development of a Functionally Equivalent Model of the Mitral Valve Chordae Tendineae Through Topology Optimization. *Annals of Biomedical Engineering*, **2019**, 47, 60-74	4.7	16
58	A Computational Cardiac Model for the Adaptation to Pulmonary Arterial Hypertension in the Rat. *Annals of Biomedical Engineering*, **2019**, 47, 138-153	4.7	16
57	An inverse modeling approach for semilunar heart valve leaflet mechanics: exploitation of tissue structure. *Biomechanics and Modeling in Mechanobiology*, **2016**, 15, 909-32	3.8	14
56	On the Functional Role of Valve Interstitial Cell Stress Fibers: A Continuum Modeling Approach. *Journal of Biomechanical Engineering*, **2017**, 139,	2.1	14
55	Biology and Biomechanics of the Heart Valve Extracellular Matrix. *Journal of Cardiovascular Development and Disease*, **2020**, 7,	4.2	14
54	Multi-resolution geometric modeling of the mitral heart valve leaflets. *Biomechanics and Modeling in Mechanobiology*, **2018**, 17, 351-366	3.8	14
53	A mathematical model for the determination of forming tissue moduli in needled-nonwoven scaffolds. *Acta Biomaterialia*, **2017**, 51, 220-236	10.8	13
52	The Three-Dimensional Microenvironment of the Mitral Valve: Insights into the Effects of Physiological Loads. *Cellular and Molecular Bioengineering*, **2018**, 11, 291-306	3.9	13

51	Quantifying heart valve interstitial cell contractile state using highly tunable poly(ethylene glycol) hydrogels. *Acta Biomaterialia*, **2019**, 96, 354-367	10.8	13
50	Computational investigation of left ventricular hemodynamics following bioprosthetic aortic and mitral valve replacement. *Mechanics Research Communications*, **2021**, 112,	2.2	13
49	On intrinsic stress fiber contractile forces in semilunar heart valve interstitial cells using a continuum mixture model. *Journal of the Mechanical Behavior of Biomedical Materials*, **2016**, 54, 244-58	4.1	12
48	Insights into the passive mechanical behavior of left ventricular myocardium using a robust constitutive model based on full 3D kinematics. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 103, 103508	4.1	12
47	A material modeling approach for the effective response of planar soft tissues for efficient computational simulations. *Journal of the Mechanical Behavior of Biomedical Materials*, **2019**, 89, 168-198	4.1	12
46	Layered Elastomeric Fibrous Scaffolds: An In-Silico Study of the Achievable Range of Mechanical Behaviors. *ACS Biomaterials Science and Engineering*, **2017**, 3, 2907-2921	5.5	9
45	Perspectives on Sharing Models and Related Resources in Computational Biomechanics Research. *Journal of Biomechanical Engineering*, **2018**, 140,	2.1	8
44	Mechanobiology of the heart valve interstitial cell: Simulation, experiment, and discovery **2018**, 249-283		8
43	Mitral valve leaflet response to ischaemic mitral regurgitation: from gene expression to tissue remodelling. *Journal of the Royal Society Interface*, **2020**, 17, 20200098	4.1	7
42	A Novel Small-Specimen Planar Biaxial Testing System With Full In-Plane Deformation Control. *Journal of Biomechanical Engineering*, **2018**, 140,	2.1	7
41	Alterations in the Microstructure of the Anterior Mitral Valve Leaflet Under Physiological Stress **2012**,		7
40	Color structured light imaging of skin. *Journal of Biomedical Optics*, **2016**, 21, 50503	3.5	7
39	On the in vivo systolic compressibility of left ventricular free wall myocardium in the normal and infarcted heart. *Journal of Biomechanics*, **2020**, 107, 109767	2.9	6
38	Development of Tissue Engineered Heart Valves for Percutaneous Transcatheter Delivery in a Fetal Ovine Model. *JACC Basic To Translational Science*, **2020**, 5, 815-828	8.7	6
37	How hydrogel inclusions modulate the local mechanical response in early and fully formed post-infarcted myocardium. *Acta Biomaterialia*, **2020**, 114, 296-306	10.8	6
36	Isogeometric finite element-based simulation of the aortic heart valve: Integration of neural network structural material model and structural tensor fiber architecture representations. *International Journal for Numerical Methods in Biomedical Engineering*, **2021**, 37, e3438	2.6	6
35	The aortic valve microstructure: Effects of transvalvular pressure **1998**, 41, 131		6
34	On the role of predicted in vivo mitral valve interstitial cell deformation on its biosynthetic behavior. *Biomechanics and Modeling in Mechanobiology*, **2021**, 20, 135-144	3.8	5

33	A new computational framework for anatomically consistent 3D statistical shape analysis with clinical imaging applications. *Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization*, **2013**, 1, 13-27	0.9	4
32	A structural constitutive model for the native pulmonary valve. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, **2004**, 2004, 3734-6		3
31	Modeling of Myocardium Compressibility and its Impact in Computational Simulations of the Healthy and Infarcted Heart. *Lecture Notes in Computer Science*, **2017**, 10263, 493-501	0.9	3
30	Pre-surgical Prediction of Ischemic Mitral Regurgitation Recurrence Using In Vivo Mitral Valve Leaflet Strains. *Annals of Biomedical Engineering*, **2021**, 1	4.7	3
29	Regional biomechanical imaging of liver cancer cells. *Journal of Cancer*, **2019**, 10, 4481-4487	4.5	3
28	FM-Track: A fiducial marker tracking software for studying cell mechanics in a three-dimensional environment. *SoftwareX*, **2020**, 11,	2.7	2
27	Analyzing valve interstitial cell mechanics and geometry with spatial statistics. *Journal of Biomechanics*, **2019**, 93, 159-166	2.9	2
26	Patient-Specific Quantification of Normal and Bicuspid Aortic Valve Leaflet Deformations from Clinically Derived Images.. *Annals of Biomedical Engineering*, **2022**, 50, 1-15	4.7	2
25	A Review on the Biomechanical Effects of Fatigue on the Porcine Bioprosthetic Heart Valve. *Journal of Long-Term Effects of Medical Implants*, **2017**, 27, 181-197	0.2	2
24	The impact of myocardial compressibility on organ-level simulations of the normal and infarcted heart. *Scientific Reports*, **2021**, 11, 13466	4.9	2
23	On Valve Interstitial Cell Signaling: The Link Between Multiscale Mechanics and Mechanobiology. *Cardiovascular Engineering and Technology*, **2021**, 12, 15-27	2.2	2
22	Transcatheter Heart Valve Downstream Fluid Dynamics in an Accelerated Evaluation Environment. *Annals of Biomedical Engineering*, **2021**, 49, 2170-2182	4.7	2
21	A preliminary study of the local biomechanical environment of liver tumors in vivo. *Medical Physics*, **2019**, 46, 1728-1739	4.4	1
20	Parameter estimation of heart valve leaflet hyperelastic mechanical behavior using an inverse modeling approach **2014**,		1
19	The Intrinsic Fatigue Mechanism of the Porcine Aortic Valve Extracellular Matrix. *Cardiovascular Engineering and Technology*, **2012**, 3, 62-72	2.2	1
18	Modeling the Role of Oscillator Flow and Dynamic Mechanical Conditioning on Dense Connective Tissue Formation in Mesenchymal Stem Cell-Derived Heart Valve Tissue Engineering. *Journal of Medical Devices, Transactions of the ASME*, **2013**, 7, 0409271-409272	1.3	1
17	Anisotropic elastic behavior of a hydrogel-coated electrospun polyurethane: Suitability for heart valve leaflets. *Journal of the Mechanical Behavior of Biomedical Materials*, **2022**, 125, 104877	4.1	1
16	On the Three-Dimensional Correlation Between Myofibroblast Shape and Contraction. *Journal of Biomechanical Engineering*, **2021**, 143,	2.1	1

List of Publications

15	Altered Responsiveness to TGFand BMP and Increased CD45+ Cell Presence in Mitral Valves Are Unique Features of Ischemic Mitral Regurgitation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 2049-2062	9.4	1
14	Adventures in Heart Valve Function A Personal Thank You to Dr. Ajit P. Yoganathan. *Cardiovascular Engineering and Technology*, **2021**, 1	2.2	1
13	Biological Mechanics of the Heart Valve Interstitial Cell **2018**, 3-36		1
12	Simultaneous Wide-Field Planar Strain-Fiber Orientation Distribution Measurement Using Polarized Spatial Domain Imaging.. *Annals of Biomedical Engineering*, **2022**, 50, 253	4.7	0
11	Multi-scale Modeling of the Heart Valve Interstitial Cell. *Studies in Mechanobiology, Tissue Engineering and Biomaterials*, **2020**, 21-53	0.5	0
10	Virtual heart guides cardiac ablation. *Nature Biomedical Engineering*, **2018**, 2, 711-712	19	0
9	Simulating the time evolving geometry, mechanical properties, and fibrous structure of bioprosthetic heart valve leaflets under cyclic loading. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 123, 104745	4.1	0
8	Mechanical Interaction of the Pericardium and Cardiac Function in the Normal and Hypertensive Rat Heart.. *Frontiers in Physiology*, **2022**, 13, 878861	4.6	0
7	Biomechanics of Diabetic Bladders. *LUTS: Lower Urinary Tract Symptoms*, **2009**, 1, S94-S97	1.9	
6	The Journal of Biomechanical EngineeringThe Next Step. *Journal of Biomechanical Engineering*, **2007**, 129, 801-801	2.1	
5	Four-dimensional Ultrasound for Characterization of In Vivo Murine Aortic Valve Dynamics. *Structural Heart*, **2021**, 5, 27-27	0.6	
4	On the shape and structure of the murine pulmonary heart valve. *Scientific Reports*, **2021**, 11, 14078	4.9	
3	A High-Fidelity 3D Micromechanical Model of Ventricular Myocardium. *Lecture Notes in Computer Science*, **2021**, 12738, 168-177	0.9	
2	Towards Patient-Specific Mitral Valve Surgical Simulations **2018**, 471-487		
1	On the Three-Dimensional Mechanical Behavior of Human Breast Tissue.. *Annals of Biomedical Engineering*, **2022**, 50, 601	4.7	