Poul M F Nielsen

List of Publications by Year
in descending order

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195	8,587	94381	48277
papers	citations	37 h-index	88 g-index

200	200	200	7004
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	High-Resolution Spatiotemporal Quantification of Intestinal Motility With Free-Form Deformation. IEEE Transactions on Biomedical Engineering, 2022, 69, 2077-2086.	2.5	7
2	Jet-Induced Tissue Disruption for Blood Release. IEEE Transactions on Biomedical Engineering, 2022, 69, 1850-1859.	2.5	2
3	Physiome Repository. , 2022, , 2804-2806.		0
4	FieldML. , 2022, , 1401-1404.		0
5	Assessing vaginal pressure profiles before and after prolapse surgery using an intravaginal pressure sensor (femfitÂ®). International Urogynecology Journal, 2021, 32, 3037-3044.	0.7	5
6	Characterising the Soft Tissue Mechanical Properties of the Lower Limb of a Below-Knee Amputee: A Review. , 2021, , 99-111.		2
7	The role of diffusion tensor imaging in characterizing injury patterns on athletes with concussion and subconcussive injury: a systematic review. Brain Injury, 2021, 35, 621-644.	0.6	10
8	The effect of camera settings on image noise and accuracy of subpixel image registration. Machine Vision and Applications, 2021, 32, 1.	1.7	3
9	Using codesign to develop a mobile application for pelvic floor muscle training with an intravaginal device (femfitÂ®). Neurourology and Urodynamics, 2021, 40, 1900-1907.	0.8	3
10	Simultaneous Brightfield, Fluorescence, and Optical Coherence Tomographic Imaging of Contracting Cardiac Trabeculae Ex Vivo. Journal of Visualized Experiments, 2021, , .	0.2	3
11	Quantifying optical anisotropy in soft tissue membranes using Mueller matrix imaging. Journal of Biomedical Optics, 2021, 26, .	1.4	7
12	Jet-Induced Blood Release From Human Fingertips: A Single-Blind, Randomized, Crossover Trial. Journal of Diabetes Science and Technology, 2021, , 193229682110538.	1.3	3
13	Is it time to rethink using digital palpation for assessment of muscle stiffness?. Neurourology and Urodynamics, 2020, 39, 279-285.	0.8	18
14	Postnatal pelvic floor muscle stiffness measured by vaginal elastometry in women with obstetric anal sphincter injury: a pilot study. International Urogynecology Journal, 2020, 31, 567-575.	0.7	7
15	Blood Collection from The Porcine Ear Using a Jet Injector. , 2020, 2020, 5119-5123.		3
16	Change in levator ani muscle stiffness and active force during pregnancy and post-partum. International Urogynecology Journal, 2020, 31, 2345-2351.	0.7	6
17	Efficient estimation of loadâ€free left ventricular geometry and passive myocardial properties using principal component analysis. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3313.	1.0	7
18	An Anatomical Heart Model with Applications to Myocardial Activation and Ventricular Mechanics. , 2020, , 3-26.		32

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19	CellML 2.0. Journal of Integrative Bioinformatics, 2020, 17, .	1.0	24
20	<scp>SBML</scp> Level 3: an extensible format for the exchange and reuse of biological models. Molecular Systems Biology, 2020, 16, e9110.	3.2	178
21	Online, data-driven detection of human position during Kegel exercising. IFAC-PapersOnLine, 2020, 53, 16359-16365.	0.5	0
22	Automatic segmentation of the thumb trapeziometacarpal joint using parametric statistical shape modelling and random forest regression voting. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2019, 7, 297-301.	1.3	2
23	An automated computational biomechanics workflow for improving breast cancer diagnosis and treatment. Interface Focus, 2019, 9, 20190034.	1.5	14
24	Novel strain analysis informs about injury susceptibility of the corpus callosum to repeated impacts. Brain Communications, 2019, 1, fcz021.	1.5	19
25	Spatially resolved diffuse imaging for highâ€speed depth estimation of jet injection. Journal of Biophotonics, 2019, 12, e201900205.	1.1	3
26	Laterally Dispersing Nozzles for Needle-assisted Jet Injection. , 2019, 2019, 1686-1689.		1
27	The Use of an Intra-Vaginal Pressure Sensor Device To Evaluate Changes in Intra-Vaginal Pressure Profiles Pre and Post Pelvic Organ Prolapse Surgery. , 2019, , .		3
28	High-speed light source depth estimation using spatially-resolved diffuse imaging. Journal of Optics (United Kingdom), 2019, 21, 015604.	1.0	3
29	Viscous Heating Assists Jet Formation During Needle-Free Jet Injection of Viscous Drugs. IEEE Transactions on Biomedical Engineering, 2019, 66, 3472-3479.	2.5	3
30	A dynamometer for nature's engines. IEEE Instrumentation and Measurement Magazine, 2019, 22, 10-16.	1.2	5
31	Surface deformation tracking and modelling of soft materials. Biomechanics and Modeling in Mechanobiology, 2019, 18, 1031-1045.	1.4	2
32	Measurement of Displacement in Isolated Heart Muscle Cells using Markerless Subpixel Image Registration. , 2019, , .		2
33	A Method for Three-Dimensional Measurements Using Widely Angled Stereoscopic Cameras. , 2019, , .		1
34	Data-driven modelling of fatigue in pelvic floor muscles when performing Kegel exercises. , 2019, , .		4
35	A Deformation Sensor based upon Light Attenuation in a Silicone Waveguide: Construction and Characterisation. , 2019, , .		2
36	The slow force response to stretch: Controversy and contradictions. Acta Physiologica, 2019, 226, e13250.	1.8	17

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37	Quantifying Carotid Pulse Waveforms Using Subpixel Image Registration. , 2019, , 83-92.		3
38	Classification of diffuse light emission profiles for distinguishing skin layer penetration of a needle-free jet injection. Biomedical Optics Express, 2019, 10, 5081.	1.5	1
39	A Flowthrough Infusion Calorimeter for Measuring Muscle Energetics: Design and Performance. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1690-1699.	2.4	12
40	The effect of jet speed on large volume jet injection. Journal of Controlled Release, 2018, 280, 51-57.	4.8	44
41	Comparison of Anisotropic Models to Simulate the Mechanical Response of Facial Skin. Lecture Notes in Bioengineering, 2018, , 43-55.	0.3	1
42	Subpixel phase-based image registration using Savitzkyâ€“Golay differentiators in gradient-correlation. Computer Vision and Image Understanding, 2018, 170, 28-39.	3.0	30
43	Development of Jet-injection Nozzles for Blood Release. , 2018, , .		4
44	Non-contact Quantification of Jugular Venous Pulse Waveforms from Skin Displacements. Scientific Reports, 2018, 8, 17236.	1.6	13
45	Power-efficient controlled jet injection using a compound ampoule. Journal of Controlled Release, 2018, 291, 127-134.	4.8	16
46	High speed, spatially-resolved diffuse imaging for jet injection depth estimation. , 2018, , .		1
47	Four-Dimensional Imaging of Cardiac Trabeculae Contracting In Vitro Using Gated OCT. IEEE Transactions on Biomedical Engineering, 2017, 64, 218-224.	2.5	4
48	Characterizing levatorâ€ani muscle stiffness preâ€•and postâ€childbirth in European and Polynesian women in New Zealand: a pilot study. Acta Obstetricia Et Gynecologica Scandinavica, 2017, 96, 1234-1242.	1.3	18
49	Trapeziometacarpal joint contact varies between men and women during three isometric functional tasks. Medical Engineering and Physics, 2017, 50, 43-49.	0.8	15
50	Computational Modeling of the Passive and Active Components of the Face. , 2017, , 377-394.		3
51	Clinical Applications of Breast Biomechanics. , 2017, , 215-242.		8
52	Registration of Prone and Supine Breast MRI for Breast Cancer Treatment Planning. , 2017, , 123-134.		2
53	Subpixel Measurement of Living Skin Deformation Using Intrinsic Features. , 2017, , 91-99.		6
54	Model-Based Interpretation of Skin Microstructural and Mechanical Measurements. , 2017, , 1019-1037.		0

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55	Modeling the second stage of labor. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2016, 8, 506-516.	6.6	5
56	Modular modelling with Physiome standards. Journal of Physiology, 2016, 594, 6817-6831.	1.3	15
57	Light source depth estimation in porcine skin using spatially resolved diffuse imaging. , 2016, 2016, 5917-5920.		1
58	Cardiac muscle energetics: Improved normalisation of heat using optical coherence tomography. , 2016, 2016, 2905-2908.		0
59	Cardiac activation heat remains inversely dependent on temperature over the range 27â€“37Â°C. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1512-H1519.	1.5	5
60	Analysis of Moving-Coil Actuator Jet Injectors for Viscous Fluids. IEEE Transactions on Biomedical Engineering, 2016, 63, 1099-1106.	2.5	14
61	Relationship Between Structure and Mechanics for Membranous Tissues. , 2016, , 135-173.		2
62	The CellML 1.1 Specification. Journal of Integrative Bioinformatics, 2015, 12, 4-85.	1.0	17
63	A Low-cost, hand-held stereoscopic device for measuring dynamic deformations of skin in vivo. , 2015, , .		4
64	Sensorless position control of voice-coil motors for needle-free jet injection. , 2015, , .		3
65	Measuring the mechanical efficiency of a working cardiac muscle sample at body temperature using a flow-through calorimeter. , 2015, 2015, 7966-9.		19
66	A high-resolution thermoelectric module-based calorimeter for measuring the energetics of isolated ventricular trabeculae at body temperature. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H318-H324.	1.5	21
67	An automated hand-held elastometer for quantifying the passive stiffness of the levator ani muscle in women. Neurourology and Urodynamics, 2015, 34, 133-138.	0.8	25
68	Clinical evaluation of a high-fidelity wireless intravaginal pressure sensor. International Urogynecology Journal, 2015, 26, 243-249.	0.7	7
69	Men and women have similarly shaped carpometacarpal joint bones. Journal of Biomechanics, 2015, 48, 3420-3426.	0.9	38
70	Head kinematics during shaking associated with abusive head trauma. Journal of Biomechanics, 2015, 48, 3123-3127.	0.9	7
71	Real-time aortic pulse wave velocity measurement during exercise stress testing. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 86.	1.6	20
72	Model-Based Interpretation of Skin Microstructural and Mechanical Measurements. , 2015, , 1-20.		0

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73	The CellML 1.1 Specification. Journal of Integrative Bioinformatics, 2015, 12, 259.	1.0	11
74	Constitutive Relations for Pressure-Driven Stiffening in Poroelastic Tissues. Journal of Biomechanical Engineering, 2014, 136, .	0.6	8
75	Reduced mechanical efficiency in left-ventricular trabeculae of the spontaneously hypertensive rat. Physiological Reports, 2014, 2, e12211.	0.7	23
76	Optical coherence tomography imaging of cardiac trabeculae. , 2014, 2014, 182-5.		3
77	Characterizing the ex vivo mechanical properties of synthetic polypropylene surgical mesh. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 37, 48-55.	1.5	50
78	An anatomical region-based statistical shape model of the human femur. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2014, 2, 176-185.	1.3	58
79	Streptozotocin-induced diabetes prolongs twitch duration without affecting the energetics of isolated ventricular trabeculae. Cardiovascular Diabetology, 2014, 13, 79.	2.7	26
80	Physiome Repository. , 2014, , 1-2.		0
81	Thermopile power measurement for heat balance calorimetry. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 1-6.	0.4	0
82	Design and development of a novel intra-vaginal pressure sensor. International Urogynecology Journal, 2013, 24, 1715-1721.	0.7	24
83	FieldML, a proposed open standard for the Physiome project for mathematical model representation. Medical and Biological Engineering and Computing, 2013, 51, 1191-1207.	1.6	29
84	Breast lesion co-localisation between X-ray and MR images using finite element modelling. Medical Image Analysis, 2013, 17, 1256-1264.	7.0	41
85	3D surface profiling using arbitrarily positioned cameras. , 2013, , .		5
86	Single-shot speckle reduction and dispersion compensation in optical coherence tomography by compounding fractional Fourier domains. Optics Letters, 2013, 38, 1787.	1.7	6
87	Simulating the three-dimensional deformation of in vivo facial skin. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 28, 484-494.	1.5	64
88	FPGA implementation of 2D cross-correlation for real-time 3D tracking of deformable surfaces. , 2013, , .		8
89	Computational and experimental characterization of skin mechanics: identifying current challenges and future directions. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2013, 5, 539-556.	6.6	73
90	Multiscale measurement of cardiac energetics. Clinical and Experimental Pharmacology and Physiology, 2013, 40, 671-681.	0.9	20

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91	Interventricular comparison of the energetics of contraction of trabeculae carneae isolated from the rat heart. Journal of Physiology, 2013, 591, 701-717.	1.3	34
92	Standards and tools supporting collaborative development of the virtual physiological human. , 2013, 2013, 5541-4.		2
93	Dispersion compensation in Fourier domain optical coherence tomography using the fractional Fourier transform. Optics Express, 2012, 20, 23398.	1.7	58
94	Instantaneous quadrature components or Jones vector retrieval using the Pancharatnamâ€“Berry phase in frequency domain low-coherence interferometry. Optics Letters, 2012, 37, 3102.	1.7	10
95	Modelling Prone to Supine Breast Deformation Under Gravity Loading Using Heterogeneous Finite Element Models. , 2012, , 29-38.		10
96	Complex conjugate term manipulation in optical frequency-domain imaging using the time-frequency distribution. Proceedings of SPIE, 2012, , .	0.8	0
97	Depth-ambiguity free or polarization sensitive optical frequency domain imaging using the Pancharatnam-Berry phase. , 2012, , .		0
98	An investigation into the viability of image processing for the measurement of sarcomere length in isolated cardiac trabeculae. , 2012, 2012, 1566-9.		3
99	Surface deformation tracking of a silicone gel skin phantom in response to normal indentation. , 2012, 2012, 527-30.		8
100	Design and testing of an MRI-compatible cycle ergometer for non-invasive cardiac assessments during exercise. BioMedical Engineering OnLine, 2012, 11, 13.	1.3	42
101	The VPH-Physiome Project: Standards, tools and databases for multi-scale physiological modelling. Modeling, Simulation and Applications, 2012, , 205-250.	1.3	2
102	Investigating Image Processing Techniques for Measuring Sarcomere Length in Isolated Cardiac Trabeculae. Heart Lung and Circulation, 2012, 21, 856.	0.2	0
103	Effects of Levator Ani Muscle Morphology on the Mechanics of Vaginal Childbirth. , 2012, , 63-75.		2
104	A thermal stereoscope for surface reconstruction of the diabetic foot. , 2011, 2011, 306-9.		3
105	A vapor pressure thermometer for use in muscle microcalorimetry. , 2011, 2011, 520-3.		1
106	Improving the efficiency of optical coherence tomography by using the non-ideal behaviour of a polarising beam splitter. Optics Express, 2011, 19, 7161.	1.7	1
107	An innovative work-loop calorimeter for in vitro measurement of the mechanics and energetics of working cardiac trabeculae. Journal of Applied Physiology, 2011, 111, 1798-1803.	1.2	51
108	FieldML â€“ a meta-language for field interchange. Nature Precedings, 2011, , .	0.1	0

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109	FieldML. Nature Precedings, 2011, , .	0.1	0
110	Dispersion compensation in spectral domain optical coherence tomography in the continuum of fractional Fourier domains. Proceedings of SPIE, 2011, , .	0.8	0
111	Lymphatic drainage and tumour prevalence in the breast: a statistical analysis of symmetry, gender and node field independence. Journal of Anatomy, 2011, 218, 652-659.	0.9	17
112	Modelling collagen fibre orientation in porcine skin based upon confocal laser scanning microscopy. Skin Research and Technology, 2011, 17, 149-159.	0.8	46
113	OpenCMISS: A multi-physics & multi-scale computational infrastructure for the VPH/Physiome project. Progress in Biophysics and Molecular Biology, 2011, 107, 32-47.	1.4	123
114	Predicting lymphatic drainage patterns and primary tumour location in patients with breast cancer. Breast Cancer Research and Treatment, 2011, 130, 699-705.	1.1	30
115	Mechanical characterisation of in vivo human skin using a 3D force-sensitive micro-robot and finite element analysis. Biomechanics and Modeling in Mechanobiology, 2011, 10, 27-38.	1.4	99
116	Anisotropic effects of the levator ani muscle during childbirth. Biomechanics and Modeling in Mechanobiology, 2011, 10, 485-494.	1.4	29
117	Estimating material parameters of a structurally based constitutive relation for skin mechanics. Biomechanics and Modeling in Mechanobiology, 2011, 10, 767-778.	1.4	92
118	Modeling the Mechanical Response of In Vivo Human Skin Under a Rich Set of Deformations. Annals of Biomedical Engineering, 2011, 39, 1935-1946.	1.3	78
119	Measurement of the forceâ€“displacement response of in vivo human skin under a rich set of deformations. Medical Engineering and Physics, 2011, 33, 610-619.	0.8	75
120	Revision history aware repositories of computational models of biological systems. BMC Bioinformatics, 2011, 12, 22.	1.2	15
121	Identification of mechanical properties of heterogeneous soft bodies using gravity loading. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 391-407.	1.0	36
122	A model for the anisotropic response of fibrous soft tissues using six discrete fibre bundles. International Journal for Numerical Methods in Biomedical Engineering, 2011, 27, 1793-1811.	1.0	27
123	A work-loop calorimeter for measuring the force-length-heat relationship of working excised cardiac muscle fibers. , 2011, 2011, 1901-4.		6
124	Using the continuum of fractional Fourier domains to compensate dispersion in optical coherence tomography. , 2011, , .		0
125	Comparison of system identification techniques in the analysis of a phantom for studying shaken-baby syndrome. , 2011, 2011, 1363-6.		0
126	Patient-Specific Modeling of Breast Biomechanics with Applications to Breast Cancer Detection and Treatment. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2011, , 379-412.	0.7	7

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127	The Physiome Model Repository 2. Bioinformatics, 2011, 27, 743-744.	1.8	169
128	Minimum Information About a Simulation Experiment (MIASE). PLoS Computational Biology, 2011, 7, e1001122.	1.5	133
129	Radius-dependent decline of performance in isolated cardiac muscle does not reflect inadequacy of diffusive oxygen supply. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 300, H1222-H1236.	1.5	29
130	A Quantitative Description of Pelvic Floor Muscle Fibre Organisation. , 2011, , 119-130.		6
131	An overview of the CellML API and its implementation. BMC Bioinformatics, 2010, 11, 178.	1.2	67
132	Modeling breast biomechanics for multiâ€modal image analysisâ€"successes and challenges. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 293-304.	6.6	45
133	Modeling childbirth: elucidating the mechanisms of labor. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 460-470.	6.6	31
134	Frequency response of implantable blood pressure telemetry systems. Clinical and Experimental Pharmacology and Physiology, 2010, 37, no-no.	0.9	2
135	CellML 1.1 modularity. Nature Precedings, 2010, , .	0.1	0
136	Stress development, heat production and dynamic modulus of rat isolated cardiac trabeculae revealed in a flow-through micro-mechano-calorimeter. , 2010, 2010, 1860-3.		5
137	Characterizing skin using a three-axis parallel drive force-sensitive micro-robot. , 2010, 2010, 6481-4.		4
138	Energetics of stress production in isolated cardiac trabeculae from the rat. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1382-H1394.	1.5	25
139	Effects of Nonlinear Muscle Elasticity on Pelvic Floor Mechanics During Vaginal Childbirth. Journal of Biomechanical Engineering, 2010, 132, 111010.	0.6	28
140	Effects of Fetal Head Motion on Pelvic Floor Mechanics. , 2010, , 129-137.		5
141	Mapping Microcalcifications Between 2D Mammograms and 3D MRI Using a Biomechanical Model of the Breast. , 2010, , 17-28.		6
142	Method for Validating Breast Compression Models Using Normalised Cross-Correlation. , 2010, , 63-71.		3
143	Breast Image Registration by Combining Finite Elements and Free-Form Deformations. Lecture Notes in Computer Science, 2010, , 736-743.	1.0	24
144	A Bayesian Search for Transcriptional Motifs. PLoS ONE, 2010, 5, e13897.	1.1	6

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145	A unique micromechanocalorimeter for simultaneous measurement of heat rate and force production of cardiac trabeculae carneae. Journal of Applied Physiology, 2009, 107, 946-951.	1.2	37
146	A method for visualizing CellML models. Bioinformatics, 2009, 25, 3012-3019.	1.8	14
147	Correlation of breast image alignment using biomechanical modelling. Proceedings of SPIE, 2009, , .	0.8	1
148	Biophysical annotation and representation of CellML models. Bioinformatics, 2009, 25, 2263-2270.	1.8	16
149	Estimating material parameters of human skin in vivo. Biomechanics and Modeling in Mechanobiology, 2009, 8, 1-8.	1.4	64
150	High-resolution Mapping of In Vivo Gastrointestinal Slow Wave Activity Using Flexible Printed Circuit Board Electrodes: Methodology and Validation. Annals of Biomedical Engineering, 2009, 37, 839-846.	1.3	149
151	Facilitating modularity and reuse: guidelines for structuring CellML 1.1 models by isolating common biophysical concepts. Experimental Physiology, 2009, 94, 472-485.	0.9	18
152	Modelling and experimental validation of thin-film effects in thermopile-based microscale calorimeters. Sensors and Actuators A: Physical, 2009, 150, 199-206.	2.0	6
153	Wireless power delivery system for mouse telemeter. , 2009, , .		19
154	CellML metadata standards, associated tools and repositories. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 1845-1867.	1.6	62
155	FieldML: concepts and implementation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 1869-1884.	1.6	92
156	Efficiency and contrast enhancement in full-field OCT using non-ideal polarization behavior. , 2009, , .		0
157	Time and Spectral domain all-fiber Optical Coherence Tomography systems with variable dispersion compensators. , 2009, , .		0
158	A biomechanical model of mammographic compressions. Biomechanics and Modeling in Mechanobiology, 2008, 7, 43-52.	1.4	43
159	Frictional contact mechanics methods for soft materials: Application to tracking breast cancers. Journal of Biomechanics, 2008, 41, 69-77.	0.9	20
160	Bioinformatics, multiscale modeling and the IUPS Physiome Project. Briefings in Bioinformatics, 2008, 9, 333-343.	3.2	89
161	The CellML Model Repository. Bioinformatics, 2008, 24, 2122-2123.	1.8	235
162	Creating Individual-specific Biomechanical Models of the Breast for Medical Image Analysis. Academic Radiology, 2008, 15, 1425-1436.	1.3	69

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163	Modelling the pelvic floor for investigating difficulties during childbirth. Proceedings of SPIE, 2008, , .	0.8	9
164	Biomechanical modelling for breast image registration. Proceedings of SPIE, 2008, , .	0.8	3
165	CellML and associated tools and techniques. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3017-3043.	1.6	121
166	The Breast Biomechanics Reference State for Multi-modal Image Analysis. Lecture Notes in Computer Science, 2008, , 385-392.	1.0	11
167	Modelling Childbirth: Comparing Athlete and Non-athlete Pelvic Floor Mechanics. Lecture Notes in Computer Science, 2008, 11, 750-757.	1.0	12
168	Modelling Mammographic Compression of the Breast. Lecture Notes in Computer Science, 2008, 11, 758-765.	1.0	22
169	Powering Implantable Telemetry Devices from Localized Magnetic Fields. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2331-5.	0.5	22
170	Modelling the Mechanical Properties of Human Skin: Towards a 3D Discrete Fibre Model. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 6641-4.	0.5	2
171	Determining the finite elasticity reference state from a loaded configuration. International Journal for Numerical Methods in Engineering, 2007, 72, 1434-1451.	1.5	62
172	Registry of BioBricks models using CellML. BMC Systems Biology, 2007, 1, .	3.0	12
173	Towards Tracking Breast Cancer Across Medical Images Using Subject-Specific Biomechanical Models. , 2007, 10, 651-658.		11
174	Toward a Curated CellML Model Repository. , 2006, 2006, 4237-40.		6
175	Computational multiscale modeling in the IUPS Physiome Project: Modeling cardiac electromechanics. IBM Journal of Research and Development, 2006, 50, 617-630.	3.2	35
176	The IUPS Physiome Project: Progress and Plans. , 2006, , 383-393.		3
177	Computational modeling of the breast during mammography for tumor tracking. , 2005, 5746, 817.		0
178	Minimum information requested in the annotation of biochemical models (MIRIAM). Nature Biotechnology, 2005, 23, 1509-1515.	9.4	553
179	Characterization of a flow-through microcalorimeter for measuring the heat production of cardiac trabeculae. Review of Scientific Instruments, 2005, 76, 104902.	0.6	28
180	Method and Apparatus for Soft Tissue Material Parameter Estimation Using Tissue Tagged Magnetic Resonance Imaging. Journal of Biomechanical Engineering, 2005, 127, 148-157.	0.6	58

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181	A Strategy for Integrative Computational Physiology. Physiology, 2005, 20, 316-325.	1.6	124
182	The evolution of CellML. , 2004, 2004, 5411-4.		4
183	A sensitive flow-through microcalorimeter for measuring the heat production of cardiac trabeculae. , 2004, 2004, 2030-3.		6
184	Predicting Tumour Location by Simulating Large Deformations of the Breast Using a 3D Finite Element Model and Nonlinear Elasticity. Lecture Notes in Computer Science, 2004, , 217-224.	1.0	36
185	Computational physiology and the physiome project. Experimental Physiology, 2004, 89, 1-26.	0.9	195
186	Strain softening behaviour in nonviable rat right-ventricular trabeculae, in the presence and the absence of butanedione monoxime. Experimental Physiology, 2004, 89, 593-604.	0.9	8
187	CellML: its future, present and past. Progress in Biophysics and Molecular Biology, 2004, 85, 433-450.	1.4	417
188	The systems biology markup language (SBML): a medium for representation and exchange of biochemical network models. Bioinformatics, 2003, 19, 524-531.	1.8	2,811
189	Strain measurement in biaxially loaded inhomogeneous, anisotropic elastic membranes. Biomechanics and Modeling in Mechanobiology, 2002, 1, 197-210.	1.4	34
190	Instrumentation and procedures for estimating the constitutive parameters of inhomogeneous elastic membranes. Biomechanics and Modeling in Mechanobiology, 2002, 1, 211-218.	1.4	15
191	A three axis parallel drive microrobot. Review of Scientific Instruments, 1997, 68, 4282-4285.	0.6	4
192	Polarizationâ€sensitive scanned fiber confocal microscope. Optical Engineering, 1996, 35, 3084.	0.5	5
193	Identification of the Time-Varying Properties of the Heart. Institute for Nonlinear Science, 1991, , 77-86.	0.2	0
194	An Apparatus For Laser Scanning Microscopy And Dynamic Testing Of Muscle Cells. Proceedings of SPIE, 1989, , .	0.8	3
195	A Parallel Computation and Control Computer for Microrobotics. , 1989, , .		0