Poul M F Nielsen

List of Publications by Year
in descending order

		94381	48277
195 papers	8,587 citations	37 h-index	88 g-index
200 all docs	200 docs citations	200 times ranked	7004 citing authors

#	Article	IF	Citations
1	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
2	Minimum information requested in the annotation of biochemical models (MIRIAM). Nature Biotechnology, 2005, 23, 1509-1515.	9.4	553
3	CellML: its future, present and past. Progress in Biophysics and Molecular Biology, 2004, 85, 433-450.	1.4	417
4	The CellML Model Repository. Bioinformatics, 2008, 24, 2122-2123.	1.8	235
5	Computational physiology and the physiome project. Experimental Physiology, 2004, 89, 1-26.	0.9	195
6	<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
7	The Physiome Model Repository 2. Bioinformatics, 2011, 27, 743-744.	1.8	169
8	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
9	Minimum Information About a Simulation Experiment (MIASE). PLoS Computational Biology, 2011, 7, e1001122.	1.5	133
10	A Strategy for Integrative Computational Physiology. Physiology, 2005, 20, 316-325.	1.6	124
11	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
12	CellML and associated tools and techniques. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 3017-3043.	1.6	121
13	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
14	FieldML: concepts and implementation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 1869-1884.	1.6	92
15	Estimating material parameters of a structurally based constitutive relation for skin mechanics. Biomechanics and Modeling in Mechanobiology, 2011, 10, 767-778.	1.4	92
16	Bioinformatics, multiscale modeling and the IUPS Physiome Project. Briefings in Bioinformatics, 2008, 9, 333-343.	3.2	89
17	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
18	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

#	Article	IF	Citations
19	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
20	Creating Individual-specific Biomechanical Models of the Breast for Medical Image Analysis. Academic Radiology, 2008, 15, 1425-1436.	1.3	69
21	An overview of the CellML API and its implementation. BMC Bioinformatics, 2010, 11, 178.	1.2	67
22	Estimating material parameters of human skin in vivo. Biomechanics and Modeling in Mechanobiology, 2009, 8, 1-8.	1.4	64
23	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
24	Determining the finite elasticity reference state from a loaded configuration. International Journal for Numerical Methods in Engineering, 2007, 72, 1434-1451.	1.5	62
25	CellML metadata standards, associated tools and repositories. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2009, 367, 1845-1867.	1.6	62
26	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
27	Dispersion compensation in Fourier domain optical coherence tomography using the fractional Fourier transform. Optics Express, 2012, 20, 23398.	1.7	58
28	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
29	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
30	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
31	Modelling collagen fibre orientation in porcine skin based upon confocal laser scanning microscopy. Skin Research and Technology, 2011, 17, 149-159.	0.8	46
32	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
33	The effect of jet speed on large volume jet injection. Journal of Controlled Release, 2018, 280, 51-57.	4.8	44
34	A biomechanical model of mammographic compressions. Biomechanics and Modeling in Mechanobiology, 2008, 7, 43-52.	1.4	43
35	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
36	Breast lesion co-localisation between X-ray and MR images using finite element modelling. Medical Image Analysis, 2013, 17, 1256-1264.	7.0	41

#	Article	IF	Citations
37	Men and women have similarly shaped carpometacarpal joint bones. Journal of Biomechanics, 2015, 48, 3420-3426.	0.9	38
38	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
39	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
40	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
41	Computational multiscale modeling in the IUPS Physiome Project: Modeling cardiac electromechanics. IBM Journal of Research and Development, 2006, 50, 617-630.	3.2	35
42	Strain measurement in biaxially loaded inhomogeneous, anisotropic elastic membranes. Biomechanics and Modeling in Mechanobiology, 2002, 1, 197-210.	1.4	34
43	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
44	An Anatomical Heart Model with Applications to Myocardial Activation and Ventricular Mechanics. , 2020, , 3-26.		32
45	Modeling childbirth: elucidating the mechanisms of labor. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2010, 2, 460-470.	6.6	31
46	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
47	Subpixel phase-based image registration using Savitzkyâ€"Golay differentiators in gradient-correlation. Computer Vision and Image Understanding, 2018, 170, 28-39.	3.0	30
48	Anisotropic effects of the levator ani muscle during childbirth. Biomechanics and Modeling in Mechanobiology, 2011, 10, 485-494.	1.4	29
49	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
50	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
51	Characterization of a flow-through microcalorimeter for measuring the heat production of cardiac trabeculae. Review of Scientific Instruments, 2005, 76, 104902.	0.6	28
52	Effects of Nonlinear Muscle Elasticity on Pelvic Floor Mechanics During Vaginal Childbirth. Journal of Biomechanical Engineering, 2010, 132, 111010.	0.6	28
53	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
54	Streptozotocin-induced diabetes prolongs twitch duration without affecting the energetics of isolated ventricular trabeculae. Cardiovascular Diabetology, 2014, 13, 79.	2.7	26

#	ARTICLE	IF	CITATIONS
55	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
56	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
57	Design and development of a novel intra-vaginal pressure sensor. International Urogynecology Journal, 2013, 24, 1715-1721.	0.7	24
58	Breast Image Registration by Combining Finite Elements and Free-Form Deformations. Lecture Notes in Computer Science, 2010, , 736-743.	1.0	24
59	CellML 2.0. Journal of Integrative Bioinformatics, 2020, 17, .	1.0	24
60	Reduced mechanical efficiency in left-ventricular trabeculae of the spontaneously hypertensive rat. Physiological Reports, 2014, 2, e12211.	0.7	23
61	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
62	Modelling Mammographic Compression of the Breast. Lecture Notes in Computer Science, 2008, 11, 758-765.	1.0	22
63	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
64	Frictional contact mechanics methods for soft materials: Application to tracking breast cancers. Journal of Biomechanics, 2008, 41, 69-77.	0.9	20
65	Multiscale measurement of cardiac energetics. Clinical and Experimental Pharmacology and Physiology, 2013, 40, 671-681.	0.9	20
66	Real-time aortic pulse wave velocity measurement during exercise stress testing. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 86.	1.6	20
67	Wireless power delivery system for mouse telemeter. , 2009, , .		19
68	Measuring the mechanical efficiency of a working cardiac muscle sample at body temperature using a flow-through calorimeter. , 2015, 2015, 7966-9.		19
69	Novel strain analysis informs about injury susceptibility of the corpus callosum to repeated impacts. Brain Communications, 2019, 1, fcz021.	1.5	19
70	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
71	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
72	Is it time to rethink using digital palpation for assessment of muscle stiffness?. Neurourology and Urodynamics, 2020, 39, 279-285.	0.8	18

#	Article	IF	Citations
73	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
74	The CellML 1.1 Specification. Journal of Integrative Bioinformatics, 2015, 12, 4-85.	1.0	17
75	The slow force response to stretch: Controversy and contradictions. Acta Physiologica, 2019, 226, e13250.	1.8	17
76	Biophysical annotation and representation of CellML models. Bioinformatics, 2009, 25, 2263-2270.	1.8	16
77	Power-efficient controlled jet injection using a compound ampoule. Journal of Controlled Release, 2018, 291, 127-134.	4.8	16
78	Instrumentation and procedures for estimating the constitutive parameters of inhomogeneous elastic membranes. Biomechanics and Modeling in Mechanobiology, 2002, 1, 211-218.	1.4	15
79	Revision history aware repositories of computational models of biological systems. BMC Bioinformatics, 2011, 12, 22.	1.2	15
80	Modular modelling with Physiome standards. Journal of Physiology, 2016, 594, 6817-6831.	1.3	15
81	Trapeziometacarpal joint contact varies between men and women during three isometric functional tasks. Medical Engineering and Physics, 2017, 50, 43-49.	0.8	15
82	A method for visualizing CellML models. Bioinformatics, 2009, 25, 3012-3019.	1.8	14
83	Analysis of Moving-Coil Actuator Jet Injectors for Viscous Fluids. IEEE Transactions on Biomedical Engineering, 2016, 63, 1099-1106.	2.5	14
84	An automated computational biomechanics workflow for improving breast cancer diagnosis and treatment. Interface Focus, 2019, 9, 20190034.	1.5	14
85	Non-contact Quantification of Jugular Venous Pulse Waveforms from Skin Displacements. Scientific Reports, 2018, 8, 17236.	1.6	13
86	Registry of BioBricks models using CellML. BMC Systems Biology, 2007, 1, .	3.0	12
87	A Flowthrough Infusion Calorimeter for Measuring Muscle Energetics: Design and Performance. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1690-1699.	2.4	12
88	Modelling Childbirth: Comparing Athlete and Non-athlete Pelvic Floor Mechanics. Lecture Notes in Computer Science, 2008, 11, 750-757.	1.0	12
89	The Breast Biomechanics Reference State for Multi-modal Image Analysis. Lecture Notes in Computer Science, 2008, , 385-392.	1.0	11
90	Towards Tracking Breast Cancer Across Medical Images Using Subject-Specific Biomechanical Models. , 2007, 10, 651-658.		11

#	ARTICLE	IF	CITATIONS
91	The CellML 1.1 Specification. Journal of Integrative Bioinformatics, 2015, 12, 259.	1.0	11
92	Instantaneous quadrature components or Jones vector retrieval using the Pancharatnam–Berry phase in frequency domain low-coherence interferometry. Optics Letters, 2012, 37, 3102.	1.7	10
93	Modelling Prone to Supine Breast Deformation Under Gravity Loading Using Heterogeneous Finite Element Models. , 2012, , 29-38.		10
94	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
95	Modelling the pelvic floor for investigating difficulties during childbirth. Proceedings of SPIE, 2008, , .	0.8	9
96	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
97	Surface deformation tracking of a silicone gel skin phantom in response to normal indentation. , 2012, 2012, 527-30.		8
98	FPGA implementation of 2D cross-correlation for real-time 3D tracking of deformable surfaces. , 2013, , .		8
99	Constitutive Relations for Pressure-Driven Stiffening in Poroelastic Tissues. Journal of Biomechanical Engineering, 2014, 136, .	0.6	8
100	Clinical Applications of Breast Biomechanics. , 2017, , 215-242.		8
101	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
102	Clinical evaluation of a high-fidelity wireless intravaginal pressure sensor. International Urogynecology Journal, 2015, 26, 243-249.	0.7	7
103	Head kinematics during shaking associated with abusive head trauma. Journal of Biomechanics, 2015, 48, 3123-3127.	0.9	7
104	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
105	Efficient estimation of load–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
106	Quantifying optical anisotropy in soft tissue membranes using Mueller matrix imaging. Journal of Biomedical Optics, 2021, 26, .	1.4	7
107	High-Resolution Spatiotemporal Quantification of Intestinal Motility With Free-Form Deformation. IEEE Transactions on Biomedical Engineering, 2022, 69, 2077-2086.	2.5	7
108	A sensitive flow-through microcalorimeter for measuring the heat production of cardiac trabeculae. , 2004, 2004, 2030-3.		6

#	Article	IF	Citations
109	Toward a Curated CellML Model Repository. , 2006, 2006, 4237-40.		6
110	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
111	A work-loop calorimeter for measuring the force-length-heat relationship of working excised cardiac muscle fibers. , 2011, 2011, 1901-4.		6
112	Single-shot speckle reduction and dispersion compensation in optical coherence tomography by compounding fractional Fourier domains. Optics Letters, 2013, 38, 1787.	1.7	6
113	Change in levator ani muscle stiffness and active force during pregnancy and post-partum. International Urogynecology Journal, 2020, 31, 2345-2351.	0.7	6
114	Mapping Microcalcifications Between 2D Mammograms and 3D MRI Using a Biomechanical Model of the Breast. , 2010, , 17-28.		6
115	A Quantitative Description of Pelvic Floor Muscle Fibre Organisation. , 2011, , 119-130.		6
116	Subpixel Measurement of Living Skin Deformation Using Intrinsic Features. , 2017, , 91-99.		6
117	A Bayesian Search for Transcriptional Motifs. PLoS ONE, 2010, 5, e13897.	1.1	6
118	Polarization‐sensitive scanned fiber confocal microscope. Optical Engineering, 1996, 35, 3084.	0.5	5
119	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
120	3D surface profiling using arbitrarily positioned cameras. , 2013, , .		5
121	Modeling the second stage of labor. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2016, 8, 506-516.	6.6	5
122	Cardiac activation heat remains inversely dependent on temperature over the range 27–37°C. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1512-H1519.	1.5	5
123	A dynamometer for nature's engines. IEEE Instrumentation and Measurement Magazine, 2019, 22, 10-16.	1.2	5
124	Assessing vaginal pressure profiles before and after prolapse surgery using an intravaginal pressure sensor (femfit®). International Urogynecology Journal, 2021, 32, 3037-3044.	0.7	5
125	Effects of Fetal Head Motion on Pelvic Floor Mechanics. , 2010, , 129-137.		5
126	A three axis parallel drive microrobot. Review of Scientific Instruments, 1997, 68, 4282-4285.	0.6	4

#	Article	IF	Citations
127	The evolution of CellML. , 2004, 2004, 5411-4.		4
128	Characterizing skin using a three-axis parallel drive force-sensitive micro-robot. , 2010, 2010, 6481-4.		4
129	A Low-cost, hand-held stereoscopic device for measuring dynamic deformations of skin in vivo. , 2015, , .		4
130	Four-Dimensional Imaging of Cardiac Trabeculae Contracting In Vitro Using Gated OCT. IEEE Transactions on Biomedical Engineering, 2017, 64, 218-224.	2.5	4
131	Development of Jet-injection Nozzles for Blood Release. , 2018, , .		4
132	Data-driven modelling of fatigue in pelvic floor muscles when performing Kegel exercises. , 2019, , .		4
133	An Apparatus For Laser Scanning Microscopy And Dynamic Testing Of Muscle Cells. Proceedings of SPIE, 1989, , .	0.8	3
134	Biomechanical modelling for breast image registration. Proceedings of SPIE, 2008, , .	0.8	3
135	A thermal stereoscope for surface reconstruction of the diabetic foot. , 2011, 2011, 306-9.		3
136	An investigation into the viability of image processing for the measurement of sarcomere length in isolated cardiac trabeculae. , 2012, 2012, 1566-9.		3
137	Optical coherence tomography imaging of cardiac trabeculae. , 2014, 2014, 182-5.		3
138	Sensorless position control of voice-coil motors for needle-free jet injection. , 2015, , .		3
139	Computational Modeling of the Passive and Active Components of the Face. , 2017, , 377-394.		3
140	Spatially resolved diffuse imaging for high‐speed depth estimation of jet injection. Journal of Biophotonics, 2019, 12, e201900205.	1.1	3
141	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
142	High-speed light source depth estimation using spatially-resolved diffuse imaging. Journal of Optics (United Kingdom), 2019, 21, 015604.	1.0	3
143	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
144	Blood Collection from The Porcine Ear Using a Jet Injector. , 2020, 2020, 5119-5123.		3

#	Article	IF	Citations
145	The effect of camera settings on image noise and accuracy of subpixel image registration. Machine Vision and Applications, 2021, 32, 1.	1.7	3
146	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
147	Method for Validating Breast Compression Models Using Normalised Cross-Correlation. , 2010, , 63-71.		3
148	Quantifying Carotid Pulse Waveforms Using Subpixel Image Registration. , 2019, , 83-92.		3
149	Simultaneous Brightfield, Fluorescence, and Optical Coherence Tomographic Imaging of Contracting Cardiac Trabeculae Ex Vivo. Journal of Visualized Experiments, 2021, , .	0.2	3
150	The IUPS Physiome Project: Progress and Plans. , 2006, , 383-393.		3
151	Jet-Induced Blood Release From Human Fingertips: A Single-Blind, Randomized, Crossover Trial. Journal of Diabetes Science and Technology, 2021, , 193229682110538.	1.3	3
152	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
153	Frequency response of implantable blood pressure telemetry systems. Clinical and Experimental Pharmacology and Physiology, 2010, 37, no-no.	0.9	2
154	The VPH-Physiome Project: Standards, tools and databases for multi-scale physiological modelling. Modeling, Simulation and Applications, 2012, , 205-250.	1.3	2
155	Standards and tools supporting collaborative development of the virtual physiological human. , 2013, 2013, 5541-4.		2
156	Relationship Between Structure and Mechanics for Membranous Tissues. , 2016, , 135-173.		2
157	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
158	Surface deformation tracking and modelling of soft materials. Biomechanics and Modeling in Mechanobiology, 2019, 18, 1031-1045.	1.4	2
159	Measurement of Displacement in Isolated Heart Muscle Cells using Markerless Subpixel Image Registration. , 2019, , .		2
160	A Deformation Sensor based upon Light Attenuation in a Silicone Waveguide: Construction and Characterisation. , 2019, , .		2
161	Characterising the Soft Tissue Mechanical Properties of the Lower Limb of a Below-Knee Amputee: A Review. , 2021, , 99-111.		2
162	Effects of Levator Ani Muscle Morphology on the Mechanics of Vaginal Childbirth. , 2012, , 63-75.		2

#	Article	IF	Citations
163	Registration of Prone and Supine Breast MRI for Breast Cancer Treatment Planning. , 2017, , 123-134.		2
164	Jet-Induced Tissue Disruption for Blood Release. IEEE Transactions on Biomedical Engineering, 2022, 69, 1850-1859.	2.5	2
165	Correlation of breast image alignment using biomechanical modelling. Proceedings of SPIE, 2009, , .	0.8	1
166	A vapor pressure thermometer for use in muscle microcalorimetry. , 2011, 2011, 520-3.		1
167	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
168	Light source depth estimation in porcine skin using spatially resolved diffuse imaging. , 2016, 2016, 5917-5920.		1
169	Comparison of Anisotropic Models to Simulate the Mechanical Response of Facial Skin. Lecture Notes in Bioengineering, 2018, , 43-55.	0.3	1
170	Laterally Dispersing Nozzles for Needle-assisted Jet Injection. , 2019, 2019, 1686-1689.		1
171	A Method for Three-Dimensional Measurements Using Widely Angled Stereoscopic Cameras. , 2019, , .		1
172	High speed, spatially-resolved diffuse imaging for jet injection depth estimation. , 2018, , .		1
173	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
174	Computational modeling of the breast during mammography for tumor tracking. , 2005, 5746, 817.		0
175	CellML 1.1 modularity. Nature Precedings, 2010, , .	0.1	0
176	FieldML â€" a meta-language for field interchange. Nature Precedings, 2011, , .	0.1	0
177	FieldML. Nature Precedings, 2011, , .	0.1	0
178	Dispersion compensation in spectral domain optical coherence tomography in the continuum of fractional Fourier domains. Proceedings of SPIE, 2011, , .	0.8	0
179	Using the continuum of fractional Fourier domains to compensate dispersion in optical coherence tomography. , 2011, , .		0
180	Comparison of system identification techniques in the analysis of a phantom for studying shaken-baby syndrome. , 2011, 2011, 1363-6.		0

#	Article	IF	Citations
181	Complex conjugate term manipulation in optical frequency-domain imaging using the time-frequency distribution. Proceedings of SPIE, 2012, , .	0.8	0
182	Depth-ambiguity free or polarization sensitive optical frequency domain imaging using the Pancharatnam-Berry phase. , 2012, , .		0
183	Investigating Image Processing Techniques for Measuring Sarcomere Length in Isolated Cardiac Trabeculae. Heart Lung and Circulation, 2012, 21, 856.	0.2	0
184	Cardiac muscle energetics: Improved normalisation of heat using optical coherence tomography. , 2016, 2016, 2905-2908.		0
185	Efficiency and contrast enhancement in full-field OCT using non-ideal polarization behavior. , 2009, , .		0
186	Time and Spectral domain all-fiber Optical Coherence Tomography systems with variable dispersion compensators. , 2009, , .		0
187	Physiome Repository. , 2014, , 1-2.		0
188	Identification of the Time-Varying Properties of the Heart. Institute for Nonlinear Science, 1991, , 77-86.	0.2	0
189	Model-Based Interpretation of Skin Microstructural and Mechanical Measurements. , 2015, , 1-20.		0
190	Model-Based Interpretation of Skin Microstructural and Mechanical Measurements. , 2017, , 1019-1037.		0
191	Thermopile power measurement for heat balance calorimetry. International Journal on Smart Sensing and Intelligent Systems, 2014, 7, 1-6.	0.4	0
192	Online, data-driven detection of human position during Kegel exercising. IFAC-PapersOnLine, 2020, 53, 16359-16365.	0.5	0
193	A Parallel Computation and Control Computer for Microrobotics. , 1989, , .		0
194	Physiome Repository. , 2022, , 2804-2806.		0
195	FieldML. , 2022, , 1401-1404.		0