

Andrew J Taberner

List of Publications by Year in descending order

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177
papers

2,251
citations

257450

24
h-index

302126

39
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181
all docs

181
docs citations

181
times ranked

1752
citing authors

#	ARTICLE	IF	CITATIONS
1	Shoulder Joint Stiffness in a Functional Posture at Various Levels of Muscle Activation. IEEE Transactions on Biomedical Engineering, 2022, 69, 2192-2201.	4.2	2
2	Jet-Induced Tissue Disruption for Blood Release. IEEE Transactions on Biomedical Engineering, 2022, 69, 1850-1859.	4.2	2
3	Crossbridge thermodynamics in pulmonary arterial hypertensive right-ventricular failure. Journal of Applied Physiology, 2022, , .	2.5	1
4	Jet injection needle-free dental anaesthesia: Initial findings. Journal of Dentistry, 2022, 122, 104165.	4.1	3
5	Work-loop contractions reveal that the afterload-dependent time course of cardiac Ca ²⁺ transients is modulated by preload. Journal of Applied Physiology, 2022, 133, 663-675.	2.5	4
6	Re-visiting the Frank-Starling nexus. Progress in Biophysics and Molecular Biology, 2021, 159, 10-21.	2.9	10
7	Disruption of transverse-tubular network reduces energy efficiency in cardiac muscle contraction. Acta Physiologica, 2021, 231, e13545.	3.8	4
8	A Method for Markerless Tracking of the Strain Distribution of Actively Contracting Cardiac Muscle Preparations. Experimental Mechanics, 2021, 61, 95-106.	2.0	4
9	Characterising the Soft Tissue Mechanical Properties of the Lower Limb of a Below-Knee Amputee: A Review. , 2021, , 99-111.		2
10	Controllable Jet Injection of Dental Local Anaesthetic. IEEE Journal of Translational Engineering in Health and Medicine, 2021, 9, 1-8.	3.7	2
11	Cardiac mechanical efficiency is preserved in primary cardiac hypertrophy despite impaired mechanical function. Journal of General Physiology, 2021, 153, .	1.9	2
12	The effect of camera settings on image noise and accuracy of subpixel image registration. Machine Vision and Applications, 2021, 32, 1.	2.7	3
13	Thermodynamic inconsistency disproves the Suga-Sagawa theory of cardiac energetics. Progress in Biophysics and Molecular Biology, 2021, 164, 81-91.	2.9	2
14	Passive myocardial mechanical properties: meaning, measurement, models. Biophysical Reviews, 2021, 13, 587-610.	3.2	30
15	Heat production in quiescent cardiac muscle is length, velocity and muscle dependent: Implications for active heat measurement. Experimental Physiology, 2021, 106, 2445-2456.	2.0	4
16	Simultaneous Brightfield, Fluorescence, and Optical Coherence Tomographic Imaging of Contracting Cardiac Trabeculae & Ex Vivo. Journal of Visualized Experiments, 2021, , .	0.3	3
17	Quantifying optical anisotropy in soft tissue membranes using Mueller matrix imaging. Journal of Biomedical Optics, 2021, 26, .	2.6	7
18	Jet-Induced Blood Release From Human Fingertips: A Single-Blind, Randomized, Crossover Trial. Journal of Diabetes Science and Technology, 2021, , 193229682110538.	2.2	3

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19	On Lightmyography: A New Muscle Machine Interfacing Method for Decoding Human Intention and Motion. , 2021, 2021, 4744-4748.		5
20	Is it time to rethink using digital palpation for assessment of muscle stiffness?. Neurourology and Urodynamics, 2020, 39, 279-285.	1.5	18
21	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.	1.4	7
22	Blood Collection from The Porcine Ear Using a Jet Injector. , 2020, 2020, 5119-5123.		3
23	A miniature mechanical testing device for testing hydrogel-based biomaterials in a confocal microscope. , 2020, 2020, 2262-2265.		1
24	Compensating for changes in heart muscle resting heat production in a microcalorimeter. , 2020, 2020, 2557-2560.		1
25	System Identification to Characterise Shoulder Joint Dynamics in Two Degrees of Freedom. , 2020, 2020, 4913-4916.		1
26	Change in levator ani muscle stiffness and active force during pregnancy and post-partum. International Urogynecology Journal, 2020, 31, 2345-2351.	1.4	6
27	Blood Dilution Measurement by a Dual Laser Fluorimeter. , 2020, , .		4
28	Energetics Equivalent of the Cardiac Force-Length End-Systolic Zone: Implications for Contractility and Economy of Contraction. Frontiers in Physiology, 2020, 10, 1633.	2.8	9
29	Removing Drift from Carotid Arterial Pulse Waveforms: A Comparison of Motion Correction and High-Pass Filtering. , 2020, , 111-119.		0
30	Coupled electromagnetic and thermal optimisation strategies for direct-drive linear permanent magnet synchronous motors. , 2020, , .		0
31	Spatially resolved diffuse imaging for high-speed depth estimation of jet injection. Journal of Biophotonics, 2019, 12, e201900205.	2.3	3
32	Laterally Dispersing Nozzles for Needle-assisted Jet Injection. , 2019, 2019, 1686-1689.		1
33	Design of a Linear Permanent Magnet Transverse Flux Motor for Needle-free Jet Injection. , 2019, , .		2
34	A camera-based system for highly accurate 3D displacement field measurement and contactless force sensing. , 2019, , .		1
35	High-speed light source depth estimation using spatially-resolved diffuse imaging. Journal of Optics (United Kingdom), 2019, 21, 015604.	2.2	3
36	Energy expenditure for isometric contractions of right and left ventricular trabeculae over a wide range of frequencies at body temperature. Scientific Reports, 2019, 9, 8841.	3.3	10

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37	Subcutaneous nicotine delivery via needle-free jet injection: A porcine model. <i>Journal of Controlled Release</i> , 2019, 306, 83-88.	9.9	13
38	Extensive eccentric contractions in intact cardiac trabeculae: revealing compelling differences in contractile behaviour compared to skeletal muscles. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20190719.	2.6	16
39	Viscous Heating Assists Jet Formation During Needle-Free Jet Injection of Viscous Drugs. <i>IEEE Transactions on Biomedical Engineering</i> , 2019, 66, 3472-3479.	4.2	3
40	A dynamometer for nature's engines. <i>IEEE Instrumentation and Measurement Magazine</i> , 2019, 22, 10-16.	1.6	5
41	Surface deformation tracking and modelling of soft materials. <i>Biomechanics and Modeling in Mechanobiology</i> , 2019, 18, 1031-1045.	2.8	2
42	Solving a century-old conundrum underlying cardiac force-length relations. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 316, H781-H793.	3.2	18
43	Measurement of Displacement in Isolated Heart Muscle Cells using Markerless Subpixel Image Registration. , 2019, , .		2
44	A Method for Three-Dimensional Measurements Using Widely Angled Stereoscopic Cameras. , 2019, , .		1
45	A Deformation Sensor based upon Light Attenuation in a Silicone Waveguide: Construction and Characterisation. , 2019, , .		2
46	Application of Linear Permanent Magnet Flux-Switching Motors to Needle-free Jet Injection. , 2019, , .		0
47	Cardiac Energetics. , 2019, , 505-539.		1
48	The slow force response to stretch: Controversy and contradictions. <i>Acta Physiologica</i> , 2019, 226, e13250.	3.8	17
49	A Linear Permanent Magnet Synchronous Motor for Large Volume Needle-Free Jet Injection. <i>IEEE Transactions on Industry Applications</i> , 2019, 55, 1437-1446.	4.9	11
50	Quantifying Carotid Pulse Waveforms Using Subpixel Image Registration. , 2019, , 83-92.		3
51	Mechanical loading of isolated cardiac muscle with a real-time computed Windkessel model of the vasculature impedance. <i>Physiological Reports</i> , 2019, 7, e14184.	1.7	7
52	Classification of diffuse light emission profiles for distinguishing skin layer penetration of a needle-free jet injection. <i>Biomedical Optics Express</i> , 2019, 10, 5081.	2.9	1
53	A Flowthrough Infusion Calorimeter for Measuring Muscle Energetics: Design and Performance. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2018, 67, 1690-1699.	4.7	12
54	Pulmonary arterial hypertension reduces energy efficiency of right, but not left, rat ventricular trabeculae. <i>Journal of Physiology</i> , 2018, 596, 1153-1166.	2.9	23

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55	The effect of jet speed on large volume jet injection. <i>Journal of Controlled Release</i> , 2018, 280, 51-57.	9.9	44
56	Subpixel phase-based image registration using Savitzky-Golay differentiators in gradient-correlation. <i>Computer Vision and Image Understanding</i> , 2018, 170, 28-39.	4.7	30
57	Development of Jet-injection Nozzles for Blood Release. , 2018, , .		4
58	Design of a Portable Pulsed Power System for Needle-Free Jet Injection. , 2018, , .		1
59	Non-contact Quantification of Jugular Venous Pulse Waveforms from Skin Displacements. <i>Scientific Reports</i> , 2018, 8, 17236.	3.3	13
60	Power-efficient controlled jet injection using a compound ampoule. <i>Journal of Controlled Release</i> , 2018, 291, 127-134.	9.9	16
61	Left-Ventricular Energetics in Pulmonary Arterial Hypertension-Induced Right-Ventricular Hypertrophic Failure. <i>Frontiers in Physiology</i> , 2018, 8, 1115.	2.8	25
62	Suitability of recent hardware accelerators (DSPs, FPGAs, and GPUs) for computer vision and image processing algorithms. <i>Signal Processing: Image Communication</i> , 2018, 68, 101-119.	3.2	73
63	High speed, spatially-resolved diffuse imaging for jet injection depth estimation. , 2018, , .		1
64	Extended depth measurement for a Stokes sample imaging polarimeter. , 2018, , .		2
65	Four-Dimensional Imaging of Cardiac Trabeculae Contracting In Vitro Using Gated OCT. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 218-224.	4.2	4
66	Delivery of immunoreactive antigen using a controllable needle-free jet injector. <i>Journal of Controlled Release</i> , 2017, 258, 73-80.	9.9	13
67	Does the intercept of the heat-stress relation provide an accurate estimate of cardiac activation heat?. <i>Journal of Physiology</i> , 2017, 595, 4725-4733.	2.9	20
68	Multidirectional In Vivo Characterization of Skin Using Wiener Nonlinear Stochastic System Identification Techniques. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	1.3	7
69	Experimental and modelling evidence of shortening heat in cardiac muscle. <i>Journal of Physiology</i> , 2017, 595, 6313-6326.	2.9	14
70	Do right-ventricular trabeculae gain energetic advantage from having a greater velocity of shortening?. <i>Journal of Physiology</i> , 2017, 595, 6477-6488.	2.9	9
71	Characterizing levator ani muscle stiffness pre- and post-childbirth in European and Polynesian women in New Zealand: a pilot study. <i>Acta Obstetrica Et Gynecologica Scandinavica</i> , 2017, 96, 1234-1242.	2.8	18
72	A flow-through infusion calorimeter for measuring muscle energetics during pharmacological interventions. , 2017, , .		5

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73	Optimization of Portable Electronically Controlled Needle-Free Jet Injection Systems. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2013-2021.	5.8	28
74	High-speed X-ray analysis of liquid delivery during jet injection. , 2017, 2017, 296-299.		3
75	Real-time model-based control of afterload for in vitro cardiac tissue experimentation. , 2017, 2017, 1287-1290.		5
76	Design of a linear permanent magnet synchronous motor for needle-free jet injection. , 2017, , .		5
77	Vapor pressure thermometry at room temperature. , 2017, , .		2
78	Design optimization of a direct-drive linear actuator assistive device for stroke. , 2017, , .		2
79	Abusive Head Trauma: Developing a Computational Adult Head Model to Predict Brain Deformations under Mild Accelerations. , 2017, , 147-157.		1
80	Subpixel Measurement of Living Skin Deformation Using Intrinsic Features. , 2017, , 91-99.		6
81	Probabilistic description of infant head kinematics in abusive head trauma. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 1633-1642.	1.6	3
82	Motion Correction Using Subpixel Image Registration. Lecture Notes in Computer Science, 2017, , 14-23.	1.3	5
83	Model-Based Interpretation of Skin Microstructural and Mechanical Measurements. , 2017, , 1019-1037.		0
84	Thermodynamic analysis questions claims of improved cardiac efficiency by dietary fish oil. Journal of General Physiology, 2016, 148, 183-193.	1.9	3
85	A device for controlled jet injection of large volumes of liquid. , 2016, 2016, 553-556.		5
86	Myocardial energetics is not compromised during compensated hypertrophy in the Dahl salt-sensitive rat model of hypertension. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H563-H571.	3.2	11
87	Muscle heat: a window into the thermodynamics of a molecular machine. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H311-H325.	3.2	15
88	Characterization of needle-assisted jet injections. Journal of Controlled Release, 2016, 243, 195-203.	9.9	24
89	Light source depth estimation in porcine skin using spatially resolved diffuse imaging. , 2016, 2016, 5917-5920.		1
90	Cardiac muscle energetics: Improved normalisation of heat using optical coherence tomography. , 2016, 2016, 2905-2908.		0

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91	Cardiac activation heat remains inversely dependent on temperature over the range 27°C–37°C. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 310, H1512-H1519.	3.2	5
92	Analysis of Moving-Coil Actuator Jet Injectors for Viscous Fluids. IEEE Transactions on Biomedical Engineering, 2016, 63, 1099-1106.	4.2	14
93	Characterization of a Novel Collagen Scaffold for Corneal Tissue Engineering. Tissue Engineering - Part C: Methods, 2016, 22, 165-172.	2.1	33
94	Using Optical Coherence Tomography to Measure Dynamic Changes in the Geometry of Isolated Cardiac Trabeculae during a Twitch. Biophysical Journal, 2015, 108, 294a.	0.5	0
95	A Low-cost, hand-held stereoscopic device for measuring dynamic deformations of skin in vivo. , 2015, , .		4
96	Sensorless position control of voice-coil motors for needle-free jet injection. , 2015, , .		3
97	Optimization of linear permanent magnet synchronous motors for needle-free jet injection. , 2015, , .		4
98	A compound ampoule for large-volume controllable jet injection. , 2015, 2015, 7341-4.		6
99	Measuring the mechanical efficiency of a working cardiac muscle sample at body temperature using a flow-through calorimeter. , 2015, 2015, 7966-9.		19
100	IEEE IMS New Zealand Chapter Report [Chapter Report]. IEEE Instrumentation and Measurement Magazine, 2015, 18, 42-43.	1.6	1
101	Surface deformation tracking and modeling of soft materials. , 2015, 2015, 4411-4.		1
102	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.	3.2	21
103	An automated hand-held elastometer for quantifying the passive stiffness of the levator ani muscle in women. Neurourology and Urodynamics, 2015, 34, 133-138.	1.5	25
104	Head kinematics during shaking associated with abusive head trauma. Journal of Biomechanics, 2015, 48, 3123-3127.	2.1	7
105	Does reduced myocardial efficiency in systemic hypertensive-hypertrophy correlate with increased left-ventricular wall thickness?. Hypertension Research, 2015, 38, 530-538.	2.7	13
106	Real-time aortic pulse wave velocity measurement during exercise stress testing. Journal of Cardiovascular Magnetic Resonance, 2015, 17, 86.	3.3	20
107	Needle-free delivery of macromolecules through the skin using controllable jet injectors. Expert Opinion on Drug Delivery, 2015, 12, 1637-1648.	5.0	66
108	Model-Based Interpretation of Skin Microstructural and Mechanical Measurements. , 2015, , 1-20.		0

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109	Power loss measurement of implantable wireless power transfer components using a Peltier device balance calorimeter. <i>Measurement Science and Technology</i> , 2014, 25, 095010.	2.6	3
110	Constitutive Relations for Pressure-Driven Stiffening in Poroelastic Tissues. <i>Journal of Biomechanical Engineering</i> , 2014, 136, .	1.3	8
111	Reduced mechanical efficiency in left-ventricular trabeculae of the spontaneously hypertensive rat. <i>Physiological Reports</i> , 2014, 2, e12211.	1.7	23
112	Optimal voice coil actuators for needle-free jet injection. , 2014, 2014, 2144-8.		14
113	Optical coherence tomography imaging of cardiac trabeculae. , 2014, 2014, 182-5.		3
114	Dietary pre-exposure of rats to fish oil does not enhance myocardial efficiency of isolated working hearts or their left ventricular trabeculae. <i>Journal of Physiology</i> , 2014, 592, 1795-1808.	2.9	16
115	The afterload-dependent peak efficiency of the isolated working rat heart is unaffected by streptozotocin-induced diabetes. <i>Cardiovascular Diabetology</i> , 2014, 13, 4.	6.8	16
116	Dietary supplementation with either saturated or unsaturated fatty acids does not affect the mechanoenergetics of the isolated rat heart. <i>Physiological Reports</i> , 2014, 2, e00272.	1.7	8
117	Streptozotocin-induced diabetes prolongs twitch duration without affecting the energetics of isolated ventricular trabeculae. <i>Cardiovascular Diabetology</i> , 2014, 13, 79.	6.8	26
118	Examination of the Heat-Stress Relationship of Rat Cardiac Trabeculae using an Improved Muscle Calorimeter. <i>Biophysical Journal</i> , 2014, 106, 773a.	0.5	0
119	Effect of a High-Salt Diet on the Mechano-Energetics of Left Ventricular Trabeculae Isolated from Dahl Salt-Sensitive Rats. <i>Biophysical Journal</i> , 2014, 106, 776a.	0.5	0
120	Thermopile power measurement for heat balance calorimetry. <i>International Journal on Smart Sensing and Intelligent Systems</i> , 2014, 7, 1-6.	0.7	0
121	3D surface profiling using arbitrarily positioned cameras. , 2013, , .		5
122	The cell injury device: A high-throughput platform for traumatic brain injury research. <i>Journal of Neuroscience Methods</i> , 2013, 218, 1-8.	2.5	10
123	Simulating the three-dimensional deformation of in vivo facial skin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2013, 28, 484-494.	3.1	64
124	FPGA implementation of 2D cross-correlation for real-time 3D tracking of deformable surfaces. , 2013, , .		8
125	Computational and experimental characterization of skin mechanics: identifying current challenges and future directions. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , 2013, 5, 539-556.	6.6	73
126	Multiscale measurement of cardiac energetics. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2013, 40, 671-681.	1.9	20

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127	Interventricular comparison of the energetics of contraction of trabeculae carneae isolated from the rat heart. <i>Journal of Physiology</i> , 2013, 591, 701-717.	2.9	34
128	A computational model of a controllable needle-free jet injector. , 2012, 2012, 2052-5.		6
129	Low-cost, flexible polymer arrays for long-term neuronal culture. , 2012, 2012, 803-6.		4
130	Comparison of the Gibbs and Suga formulations of cardiac energetics: the demise of "isoefficiency". <i>Journal of Applied Physiology</i> , 2012, 113, 996-1003.	2.5	16
131	An investigation into the viability of image processing for the measurement of sarcomere length in isolated cardiac trabeculae. , 2012, 2012, 1566-9.		3
132	Surface deformation tracking of a silicone gel skin phantom in response to normal indentation. , 2012, 2012, 527-30.		8
133	Relating components of pressure-volume area in Suga's formulation of cardiac energetics to components of the stress-time integral. <i>Journal of Applied Physiology</i> , 2012, 113, 988-995.	2.5	11
134	Myocardial twitch duration and the dependence of oxygen consumption on pressure-volume area: experiments and modelling. <i>Journal of Physiology</i> , 2012, 590, 4603-4622.	2.9	12
135	Design and testing of an MRI-compatible cycle ergometer for non-invasive cardiac assessments during exercise. <i>BioMedical Engineering OnLine</i> , 2012, 11, 13.	2.7	42
136	Investigating Image Processing Techniques for Measuring Sarcomere Length in Isolated Cardiac Trabeculae. <i>Heart Lung and Circulation</i> , 2012, 21, 856.	0.4	0
137	Inexpensive optical system for microarray ELISA. <i>Talanta</i> , 2012, 100, 405-409.	5.5	5
138	Needle-free jet injection using real-time controlled linear Lorentz-force actuators. <i>Medical Engineering and Physics</i> , 2012, 34, 1228-1235.	1.7	131
139	A fully implantable telemetry system for the chronic monitoring of brain tissue oxygen in freely moving rats. <i>Journal of Neuroscience Methods</i> , 2012, 204, 242-248.	2.5	24
140	A thermal stereoscope for surface reconstruction of the diabetic foot. , 2011, 2011, 306-9.		3
141	Temperature sensors for use in muscle microcalorimetry. , 2011, , .		3
142	A vapor pressure thermometer for use in muscle microcalorimetry. , 2011, 2011, 520-3.		1
143	An innovative work-loop calorimeter for in vitro measurement of the mechanics and energetics of working cardiac trabeculae. <i>Journal of Applied Physiology</i> , 2011, 111, 1798-1803.	2.5	51
144	Development and Performance of a Controllable Autoloading Needle-Free Jet Injector. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2011, 5, .	0.7	26

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145	Mechanical characterisation of in vivo human skin using a 3D force-sensitive micro-robot and finite element analysis. <i>Biomechanics and Modeling in Mechanobiology</i> , 2011, 10, 27-38.	2.8	99
146	Modeling the Mechanical Response of In Vivo Human Skin Under a Rich Set of Deformations. <i>Annals of Biomedical Engineering</i> , 2011, 39, 1935-1946.	2.5	78
147	Measurement of the force-displacement response of in vivo human skin under a rich set of deformations. <i>Medical Engineering and Physics</i> , 2011, 33, 610-619.	1.7	75
148	A work-loop calorimeter for measuring the force-length-heat relationship of working excised cardiac muscle fibers. , 2011, 2011, 1901-4.		6
149	Comparison of system identification techniques in the analysis of a phantom for studying shaken-baby syndrome. , 2011, 2011, 1363-6.		0
150	A high bandwidth fully implantable mouse telemetry system for chronic ECG measurement. , 2011, 2011, 7666-9.		8
151	Radius-dependent decline of performance in isolated cardiac muscle does not reflect inadequacy of diffusive oxygen supply. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011, 300, H1222-H1236.	3.2	29
152	An implantable telemetry system for continuous chronic monitoring of kidney oxygenation in freely moving rats. <i>FASEB Journal</i> , 2011, 25, 665.15.	0.5	0
153	Chronic monitoring of brain tissue oxygen in freely moving rats from a fully implanted telemetry system. <i>FASEB Journal</i> , 2011, 25, 1077.6.	0.5	0
154	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
155	Characterizing skin using a three-axis parallel drive force-sensitive micro-robot. , 2010, 2010, 6481-4.		4
156	Energetics of stress production in isolated cardiac trabeculae from the rat. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010, 299, H1382-H1394.	3.2	25
157	Changes of surface and t-tubular membrane excitability during fatigue with repeated tetani in isolated mouse fast- and slow-twitch muscle. <i>Journal of Applied Physiology</i> , 2009, 106, 101-112.	2.5	23
158	A unique micromechanocalorimeter for simultaneous measurement of heat rate and force production of cardiac trabeculae carnea. <i>Journal of Applied Physiology</i> , 2009, 107, 946-951.	2.5	37
159	Trabeculae carnea as models of the ventricular walls: implications for the delivery of oxygen. <i>Journal of General Physiology</i> , 2009, 134, 339-350.	1.9	36
160	Modelling and experimental validation of thin-film effects in thermopile-based microscale calorimeters. <i>Sensors and Actuators A: Physical</i> , 2009, 150, 199-206.	4.1	6
161	Wireless power delivery system for mouse telemeter. , 2009, , .		19
162	Experimental Study of a TET System for Implantable Biomedical Devices. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2009, 3, 370-378.	4.0	57

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163	Design and Fabrication of Phantoms Using Stereolithography for Small-Animal Imaging Systems. <i>Molecular Imaging and Biology</i> , 2008, 10, 231-236.	2.6	8
164	Delivery of Active Collagenase to Skin Using a Lorentz-Force Actuated Needle-Free Injector. , 2006, 2006, 5611-6.		4
165	Calibration of a horizontally acting force transducer with the use of a simple pendulum. <i>Review of Scientific Instruments</i> , 2006, 77, 125103.	1.3	3
166	A Portable Needle-free Jet Injector Based on a Custom High Power-density Voice-coil Actuator. , 2006, 2006, 5001-4.		21
167	A Lorentz-Force Actuated Autoloading Needle-free Injector. , 2006, 2006, 679-82.		7
168	The Effect of Jet Parameters on Jet Injection. , 2006, 2006, 5005-8.		18
169	A Lorentz-Force Actuated Autoloading Needle-free Injector. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1
170	A Portable Needle-free Jet Injector Based on a Custom High Power-density Voice-coil Actuator. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	1
171	Delivery of Active Collagenase to Skin Using a Lorentz-Force Actuated Needle-Free Injector. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
172	The Effect of Jet Parameters on Jet Injection. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0
173	Characterization of a flow-through microcalorimeter for measuring the heat production of cardiac trabeculae. <i>Review of Scientific Instruments</i> , 2005, 76, 104902.	1.3	28
174	An apparatus for high throughput nanomechanical muscle cell experimentation. , 2004, 2004, 2018-21.		0
175	A sensitive flow-through microcalorimeter for measuring the heat production of cardiac trabeculae. , 2004, 2004, 2030-3.		6
176	Strain softening behaviour in nonviable rat right-ventricular trabeculae, in the presence and the absence of butanedione monoxime. <i>Experimental Physiology</i> , 2004, 89, 593-604.	2.0	8
177	Computational Modelling of Cardiac Trabecula Mechanics. <i>ANZIAM Journal</i> , 0, 59, .	0.0	0