

# David W Holdsworth

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

220  
papers

6,801  
citations

47  
h-index

74  
g-index

230  
ext. papers

7,692  
ext. citations

4.7  
avg, IF

5.59  
L-index

#	Paper	IF	Citations
220	Low-flow intussusception and metastable VEGFR2 signaling launch angiogenesis in ischemic muscle. <i>Science Advances</i> , <b>2021</b> , 7, eabg9509	14.3	0
219	Novel quantification of the regional strain distribution in the anterior cruciate ligament in response to simulated loading using micro-CT imaging. <i>Journal of Experimental Orthopaedics</i> , <b>2021</b> , 8, 95	2.3	
218	Effect of Memantine Treatment and Combination with Vitamin D Supplementation on Body Composition in the APP/PS1 Mouse Model of Alzheimer's Disease Following Chronic Vitamin D Deficiency. <i>Journal of Alzheimer's Disease</i> , <b>2021</b> , 81, 375-388	4.3	0
217	Accuracy and precision of image-based strain measurement using embedded radiopaque markers. <i>Medical Engineering and Physics</i> , <b>2021</b> , 92, 88-92	2.4	2
216	No Difference in Ligamentous Strain or Knee Kinematics Between Rectangular or Cylindrical Femoral Tunnels During Anatomic ACL Reconstruction With a Bone-Patellar Tendon-Bone Graft. <i>Orthopaedic Journal of Sports Medicine</i> , <b>2021</b> , 9, 23259671211009523	3.5	1
215	Localized Oxygen Exchange Platform for Intravital Video Microscopy Investigations of Microvascular Oxygen Regulation. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 654928	4.6	1
214	2021 Frank Stinchfield Award: A novel cemented hip hemiarthroplasty infection model with real-time in vivo imaging in rats : an animal study. <i>Bone and Joint Journal</i> , <b>2021</b> , 103-B, 9-16	5.6	2
213	Insertion of Small Diameter Radiopaque Tracking Beads into the Anterior Cruciate Ligament Results in Repeatable Strain Measurement Without Affecting the Material Properties. <i>Annals of Biomedical Engineering</i> , <b>2021</b> , 49, 98-105	4.7	2
212	In vivo reverse total shoulder arthroplasty contact mechanics. <i>Journal of Shoulder and Elbow Surgery</i> , <b>2021</b> , 30, 421-429	4.3	1
211	PEG-modified gadolinium nanoparticles as contrast agents for in vivo micro-CT. <i>Scientific Reports</i> , <b>2021</b> , 11, 16603	4.9	2
210	Development of a Wireless Telemetry Sensor Device to Measure Load and Deformation in Orthopaedic Applications. <i>Sensors</i> , <b>2020</b> , 20,	3.8	2
209	Hip capsular strain varies between ligaments dependent on both hip position- and applied rotational force. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2020</b> , 28, 3393-3399	5.5	6
208	Image-based design and 3D-metal printing of a rat hip implant for use in a clinically representative model of joint replacement. <i>Journal of Orthopaedic Research</i> , <b>2020</b> , 38, 1627-1636	3.8	3
207	Vibration of osteoblastic cells using a novel motion-control platform does not acutely alter cytosolic calcium, but desensitizes subsequent responses to extracellular ATP. <i>Journal of Cellular Physiology</i> , <b>2020</b> , 235, 5096-5110	7	
206	Microcomputed Tomography Is a Precise Method That Allows for Topographical Characterization of Lymph Nodes and Lymphatic Vessels. <i>Lymphatic Research and Biology</i> , <b>2020</b> , 18, 166-173	2.3	2
205	Timing of failed parasitoid development in <i>Halyomorpha halys</i> eggs. <i>Biological Control</i> , <b>2020</b> , 141, 1041248	3.8	12
204	Ectopic spinal calcification associated with diffuse idiopathic skeletal hyperostosis (DISH): A quantitative micro-ct analysis. <i>Journal of Orthopaedic Research</i> , <b>2019</b> , 37, 717-726	3.8	6

203	Study of the effect of stenosis severity and non-Newtonian viscosity on multidirectional wall shear stress and flow disturbances in the carotid artery using particle image velocimetry. <i>Medical Engineering and Physics</i> , <b>2019</b> , 65, 8-23	2.4	16
202	Development and Assessment of a Micro-CT Compatible Five Degree-of-Freedom Knee Joint Motion Simulator. <i>Journal of Biomechanical Engineering</i> , <b>2019</b> ,	2.1	6
201	Polymer Assembly Encapsulation of Lanthanide Nanoparticles as Contrast Agents for In Vivo Micro-CT. <i>Biomacromolecules</i> , <b>2018</b> , 19, 896-905	6.9	8
200	Early Changes of Articular Cartilage and Subchondral Bone in The DMM Mouse Model of Osteoarthritis. <i>Scientific Reports</i> , <b>2018</b> , 8, 2855	4.9	76
199	Radiostereometric analysis using clinical radiographic views: Validation with model-based radiostereometric analysis for the knee. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2018</b> , 232, 759-767	1.7	1
198	Effect of confinement on the rheology of a yield-stress fluid. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2018</b> , 261, 25-32	2.7	9
197	Activation of cancer-associated fibroblasts is required for tumor neovascularization in a murine model of melanoma. <i>Matrix Biology</i> , <b>2018</b> , 74, 52-61	11.4	38
196	Dual-energy computed tomography using a gantry-based preclinical cone-beam microcomputed tomography scanner. <i>Journal of Medical Imaging</i> , <b>2018</b> , 5, 033503	2.6	2
195	Varus tibial alignment is associated with greater tibial baseplate migration at 10 years following total knee arthroplasty. <i>Knee Surgery, Sports Traumatology, Arthroscopy</i> , <b>2018</b> , 26, 1610-1617	5.5	20
194	In-vitro comparison of different palatal sites for orthodontic miniscrew insertion: Effect of bone quality and quantity on primary stability. <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , <b>2018</b> , 154, 809-819	2.1	18
193	Whole-body vibration of mice induces progressive degeneration of intervertebral discs associated with increased expression of Il-1 $\beta$ and multiple matrix degrading enzymes. <i>Osteoarthritis and Cartilage</i> , <b>2017</b> , 25, 779-789	6.2	21
192	Receptor for hyaluronan mediated motility (RHAMM/HMMR) is a novel target for promoting subcutaneous adipogenesis. <i>Integrative Biology (United Kingdom)</i> , <b>2017</b> , 9, 223-237	3.7	17
191	A respiratory-gated micro-CT comparison of respiratory patterns in free-breathing and mechanically ventilated rats. <i>Physiological Reports</i> , <b>2017</b> , 5, e13074	2.6	7
190	Optimizing finite element predictions of local subchondral bone structural stiffness using neural network-derived density-modulus relationships for proximal tibial subchondral cortical and trabecular bone. <i>Clinical Biomechanics</i> , <b>2017</b> , 41, 1-8	2.2	17
189	Compound speckle model detects anti-angiogenic tumor response in preclinical nonlinear contrast-enhanced ultrasonography. <i>Medical Physics</i> , <b>2017</b> , 44, 99-111	4.4	2
188	Accounting for spatial variation of trabecular anisotropy with subject-specific finite element modeling moderately improves predictions of local subchondral bone stiffness at the proximal tibia. <i>Journal of Biomechanics</i> , <b>2017</b> , 59, 101-108	2.9	13
187	Erbium-Based Perfusion Contrast Agent for Small-Animal Microvessel Imaging. <i>Contrast Media and Molecular Imaging</i> , <b>2017</b> , 2017, 7368384	3.2	5
186	Micro-CT imaging of live insects using carbon dioxide gas-induced hypoxia as anesthetic with minimal impact on certain subsequent life history traits. <i>BMC Zoology</i> , <b>2017</b> , 2,	1.8	12

185	Micro-computed tomography: Applications for high-resolution skeletal density determinations: An example using annually banded crustose coralline algae. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2017</b> , 18, 3542-3553	3.6	6
184	Whole-body vibration of mice induces articular cartilage degeneration with minimal changes in subchondral bone. <i>Osteoarthritis and Cartilage</i> , <b>2017</b> , 25, 770-778	6.2	11
183	C57BL/6 mice are resistant to joint degeneration induced by whole-body vibration. <i>Osteoarthritis and Cartilage</i> , <b>2017</b> , 25, 421-425	6.2	11
182	Practical fabrication of microfluidic platforms for live-cell microscopy. <i>Biomedical Microdevices</i> , <b>2016</b> , 18, 78	3.7	5
181	Microbial Diversity of Impact-Generated Habitats. <i>Astrobiology</i> , <b>2016</b> , 16, 775-786	3.7	5
180	Iodine potassium iodide improves the contrast-to-noise ratio of micro-computed tomography images of the human middle ear. <i>Journal of Microscopy</i> , <b>2016</b> , 264, 334-338	1.9	5
179	Quantitative micro-computed tomography for assessment of age-dependent changes in murine whole-body composition. <i>Bone Reports</i> , <b>2016</b> , 5, 70-80	2.6	9
178	The role of bone sialoprotein in the tendon-bone insertion. <i>Matrix Biology</i> , <b>2016</b> , 52-54, 325-338	11.4	11
177	Research Priorities in the Field of Posttraumatic Pain and Disability: Results of a Transdisciplinary Consensus-Generating Workshop. <i>Pain Research and Management</i> , <b>2016</b> , 2016, 1859434	2.6	1
176	Finite-Element Analysis of Bone Stresses on Primary Impact in a Large-Animal Model: The Distal End of the Equine Third Metacarpal. <i>PLoS ONE</i> , <b>2016</b> , 11, e0159541	3.7	17
175	Disruption of biomineralization pathways in spinal tissues of a mouse model of diffuse idiopathic skeletal hyperostosis. <i>Bone</i> , <b>2016</b> , 90, 37-49	4.7	12
174	<b>2016</b> ,		3
173	Metrology test object for dimensional verification in additive manufacturing of metals for biomedical applications. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2015</b> , 229, 20-7	1.7	14
172	Prediction of local proximal tibial subchondral bone structural stiffness using subject-specific finite element modeling: Effect of selected density-modulus relationship. <i>Clinical Biomechanics</i> , <b>2015</b> , 30, 703-712	3.2	18
171	Assessing the local mechanical environment in medial opening wedge high tibial osteotomy using finite element analysis. <i>Journal of Biomechanical Engineering</i> , <b>2015</b> , 137,	2.1	12
170	Mechanical Forces Exacerbate Periodontal Defects in Bsp-null Mice. <i>Journal of Dental Research</i> , <b>2015</b> , 94, 1276-85	8.1	16
169	Quantification of mouse in vivo whole-body vibration amplitude from motion-blur using x-ray imaging. <i>Physics in Medicine and Biology</i> , <b>2015</b> , 60, 6423-39	3.8	1
168	Repeated exposure to high-frequency low-amplitude vibration induces degeneration of murine intervertebral discs and knee joints. <i>Arthritis and Rheumatology</i> , <b>2015</b> , 67, 2164-75	9.5	40

167	The effects of nonvascularized versus vascularized bone grafting on calvarial defect healing. <i>Journal of Craniofacial Surgery</i> , <b>2015</b> , 26, 290-5	1.2	8
166	Turbulence intensity measurements using particle image velocimetry in diseased carotid artery models: effect of stenosis severity, plaque eccentricity, and ulceration. <i>Journal of Biomechanics</i> , <b>2014</b> , 47, 253-63	2.9	58
165	Characterization of weathering and heterogeneous mineral phase distribution in brachinite Northwest Africa 4872. <i>Meteoritics and Planetary Science</i> , <b>2014</b> , 49, 1141-1156	2.8	19
164	Loss of P2X7 nucleotide receptor function leads to abnormal fat distribution in mice. <i>Purinergic Signalling</i> , <b>2014</b> , 10, 291-304	3.8	54
163	Accounting for cranial vault growth in experimental design. <i>Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology</i> , <b>2014</b> , 117, e325-e329	2	1
162	Loss of the mammalian DREAM complex deregulates chondrocyte proliferation. <i>Molecular and Cellular Biology</i> , <b>2014</b> , 34, 2221-34	4.8	20
161	Collagenase-resistant collagen promotes mouse aging and vascular cell senescence. <i>Aging Cell</i> , <b>2014</b> , 13, 121-30	9.9	41
160	Nondestructive microimaging during preclinical pin-on-plate testing of novel materials for arthroplasty. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2014</b> , 228, 159-64	1.7	2
159	In vitro shear stress measurements using particle image velocimetry in a family of carotid artery models: effect of stenosis severity, plaque eccentricity, and ulceration. <i>PLoS ONE</i> , <b>2014</b> , 9, e98209	3.7	26
158	Optimization of Image Quality in Retrospective Respiratory-Gated Micro-CT for Quantitative Measurements of Lung Function in Free-Breathing Rats. <i>Journal of Biomedical Science and Engineering</i> , <b>2014</b> , 07, 157-172	0.7	4
157	Evaluation of distal turbulence intensity for the detection of both plaque ulceration and stenosis grade in the carotid bifurcation using clinical Doppler ultrasound. <i>European Radiology</i> , <b>2013</b> , 23, 1720-8	8	7
156	The Wood Lake, Ontario, H4 ordinary chondrite, a new Canadian meteorite. <i>Canadian Journal of Earth Sciences</i> , <b>2013</b> , 50, 32-43	1.5	1
155	Oral administration of hyaluronan reduces bone turnover in ovariectomized rats. <i>Journal of Agricultural and Food Chemistry</i> , <b>2013</b> , 61, 339-45	5.7	8
154	A randomized trial comparing acetabular component fixation of two porous ingrowth surfaces using RSA. <i>Journal of Arthroplasty</i> , <b>2013</b> , 28, 48-52	4.4	21
153	Loss of equilibrative nucleoside transporter 1 in mice leads to progressive ectopic mineralization of spinal tissues resembling diffuse idiopathic skeletal hyperostosis in humans. <i>Journal of Bone and Mineral Research</i> , <b>2013</b> , 28, 1135-49	6.3	61
152	Acute vibration induces transient expression of anabolic genes in the murine intervertebral disc. <i>Arthritis and Rheumatism</i> , <b>2013</b> , 65, 1853-64		17
151	Deficiency in acellular cementum and periodontal attachment in bsp null mice. <i>Journal of Dental Research</i> , <b>2013</b> , 92, 166-72	8.1	62
150	Quantification of in vivo implant wear in total knee replacement from dynamic single plane radiography. <i>Physics in Medicine and Biology</i> , <b>2013</b> , 58, 2751-67	3.8	7

149	Implementation and commissioning of an integrated micro-CTBT system with computerized independent jaw collimation. <i>Medical Physics</i> , <b>2013</b> , 40, 081706	4.4	24
148	Physical characterization of a suite of Buzzard Coulee H4 chondrite fragments. <i>Meteoritics and Planetary Science</i> , <b>2013</b> , 48, 1060-1073	2.8	6
147	Intrinsic microvasculature of the sciatic nerve in the rat. <i>Journal of the Peripheral Nervous System</i> , <b>2012</b> , 17, 377-84	4.7	10
146	An in vivo investigation of the initiation and progression of subchondral cysts in a rodent model of secondary osteoarthritis. <i>Arthritis Research and Therapy</i> , <b>2012</b> , 14, R26	5.7	51
145	Finite-element modeling of viscoelastic cells during high-frequency cyclic strain. <i>Journal of Functional Biomaterials</i> , <b>2012</b> , 3, 209-24	4.8	25
144	Measurement of joint kinematics using a conventional clinical single-perspective flat-panel radiography system. <i>Medical Physics</i> , <b>2012</b> , 39, 6090-103	4.4	2
143	How do CAD models compare with reverse engineered manufactured components for use in wear analysis?. <i>Clinical Orthopaedics and Related Research</i> , <b>2012</b> , 470, 1847-54	2.2	15
142	Early failure of a polyethylene acetabular liner cemented into a metal cup. <i>Journal of Arthroplasty</i> , <b>2012</b> , 27, 820.e5-8	4.4	4
141	Comparison of micro-computed tomography and laser scanning for reverse engineering orthopaedic component geometries. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2012</b> , 226, 263-7	1.7	9
140	Traceable micro-CT scaling accuracy phantom for applications requiring exact measurement of distances or volumes. <i>Medical Physics</i> , <b>2012</b> , 39, 6022-7	4.4	4
139	A framework for modeling ocular drug transport and flow through the eye using micro-CT. <i>Physics in Medicine and Biology</i> , <b>2012</b> , 57, 6295-307	3.8	2
138	Simultaneous vibration and high-speed microscopy to study mechanotransduction in living cells <b>2012</b> ,		3
137	Computed tomography (CT) bone segmentation of an ancient Egyptian mummy: a comparison of automated and semiautomated threshold and dual-energy techniques. <i>Journal of Computer Assisted Tomography</i> , <b>2012</b> , 36, 616-22	2.2	10
136	Measurements of surface and subsurface damage in retrieved polyethylene tibial inserts of a contemporary design. <i>Journal of Long-Term Effects of Medical Implants</i> , <b>2012</b> , 22, 21-31	0.2	7
135	Subchondral cysts create increased intra-osseous stress in early knee OA: A finite element analysis using simulated lesions. <i>Bone</i> , <b>2011</b> , 48, 639-46	4.7	47
134	Preliminary radiological assessment of age-related change in the trabecular structure of the human os pubis. <i>Journal of Forensic Sciences</i> , <b>2011</b> , 56, 312-9	1.8	25
133	Determination of reference geometry for polyethylene tibial insert wear analysis. <i>Journal of Arthroplasty</i> , <b>2011</b> , 26, 497-503	4.4	18
132	A blood-mimicking fluid for particle image velocimetry with silicone vascular models. <i>Experiments in Fluids</i> , <b>2011</b> , 50, 769-774	2.5	76

131	In vitro quantification of wear in tibial inserts using microcomputed tomography. <i>Clinical Orthopaedics and Related Research</i> , <b>2011</b> , 469, 107-12	2.2	38
130	Comparison of hyperpolarized (3)He MRI with Xe-enhanced computed tomography imaging for ventilation mapping of rat lung. <i>NMR in Biomedicine</i> , <b>2011</b> , 24, 1073-80	4.4	10
129	CT and micro-CT analysis of a case of Paget's disease (osteitis deformans) in the Grant skeletal collection. <i>International Journal of Osteoarchaeology</i> , <b>2011</b> , 21, 127-135	1.1	10
128	Damage of an Oxinium femoral head and polyethylene liner following 'routine' total hip replacement. <i>Journal of Bone and Joint Surgery: British Volume</i> , <b>2011</b> , 93, 409-13		28
127	Image performance evaluation of a 3D surgical imaging platform <b>2011</b> ,		7
126	Implementation and assessment of an animal management system for small-animal micro-CT / micro-SPECT imaging <b>2011</b> ,		2
125	A bony connection signals laryngeal echolocation in bats. <i>Nature</i> , <b>2010</b> , 463, 939-42	50.4	86
124	Veselka et al. reply. <i>Nature</i> , <b>2010</b> , 466, E7-E7	50.4	1
123	Veselka et al. reply. <i>Nature</i> , <b>2010</b> , 466, E9-E9	50.4	3
122	Flow patterns in carotid bifurcation models using pulsed Doppler ultrasound: effect of concentric vs. eccentric stenosis on turbulence and recirculation. <i>Ultrasound in Medicine and Biology</i> , <b>2010</b> , 36, 1125-34	3.5	65
121	Regional measurements of surface deviation volume in worn polyethylene joint replacement components. <i>Journal of Long-Term Effects of Medical Implants</i> , <b>2010</b> , 20, 49-56	0.2	4
120	Design and construction of a multipath vessel phantom for interventional training. <i>British Journal of Radiology</i> , <b>2010</b> , 83, 979-82	3.4	2
119	Rapid in vivo whole body composition of rats using cone beam CT. <i>Journal of Applied Physiology</i> , <b>2010</b> , 109, 1162-9	3.7	23
118	Micro-CT-compatible technique for measuring self-expanding stent forces. <i>Journal of Vascular and Interventional Radiology</i> , <b>2010</b> , 21, 562-70	2.4	5
117	Integration and evaluation of a needle-positioning robot with volumetric microcomputed tomography image guidance for small animal stereotactic interventions. <i>Medical Physics</i> , <b>2010</b> , 37, 1647-59	4.4	9
116	Sensory and vascular changes in a rat monoarthritis model: prophylactic and therapeutic effects of meloxicam. <i>Inflammation Research</i> , <b>2010</b> , 59, 667-78	7.2	11
115	Three-dimensional surface deviation maps for analysis of retrieved polyethylene acetabular liners using micro-computed tomography. <i>Journal of Arthroplasty</i> , <b>2010</b> , 25, 330-2	4.4	29
114	Comparison of hyperpolarized (3)He MRI rat lung volume measurement with micro-computed tomography. <i>NMR in Biomedicine</i> , <b>2010</b> , 23, 359-67	4.4	9

113	Highly cross-linked polyethylene acetabular liners retrieved four to five years after revision surgery: a report of two cases. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2010</b> , 3, 464-94	4.1	3
112	In vivo Doppler ultrasound quantification of turbulence intensity using a high-pass frequency filter method. <i>Ultrasound in Medicine and Biology</i> , <b>2010</b> , 36, 761-71	3.5	10
111	Technique to quantify subsurface cracks in retrieved polyethylene components using micro-CT. <i>Journal of Long-Term Effects of Medical Implants</i> , <b>2010</b> , 20, 27-34	0.2	12
110	Three-Dimensional Ultrasound Probe Pose Estimation from Single-Perspective X-Rays for Image-Guided Interventions. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 344-352	0.9	4
109	Quantifying lung morphology with respiratory-gated micro-CT in a murine model of emphysema. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 2121-30	3.8	31
108	Development of a customized density-modulus relationship for use in subject-specific finite element models of the ulna. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , <b>2009</b> , 223, 787-94	1.7	22
107	Characterization of catheter dynamics during percutaneous transluminal catheter procedures. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2009</b> , 56, 2140-3	5	29
106	Design and performance evaluation of a remote catheter navigation system. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2009</b> , 56, 1901-8	5	94
105	Interactions of coronary artery smooth muscle cells with 3D porous polyurethane scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2009</b> , 89, 293-303	5.4	25
104	In vitro Doppler ultrasound investigation of turbulence intensity in pulsatile flow with simulated cardiac variability. <i>Ultrasound in Medicine and Biology</i> , <b>2009</b> , 35, 120-8	3.5	8
103	Clinical Doppler ultrasound for the assessment of plaque ulceration in the stenosed carotid bifurcation by detection of distal turbulence intensity: a matched model study. <i>European Radiology</i> , <b>2009</b> , 19, 2739-49	8	47
102	Use of co-registered high-resolution computed tomography scans before and after screw insertion as a novel technique for bone mineral density determination along screw trajectory. <i>Bone</i> , <b>2009</b> , 44, 1163-8	4.7	6
101	The role of Akt1 in terminal stages of endochondral bone formation: angiogenesis and ossification. <i>Bone</i> , <b>2009</b> , 45, 1133-45	4.7	76
100	In vivo micro-CT analysis of bone remodeling in a rat calvarial defect model. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 2147-61	3.8	64
99	Deriving a blood-mimicking fluid for particle image velocimetry in Sylgard-184 vascular models. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 1412-5	0.9	15
98	Error analysis of marker-based object localization using a single-plane XRIT. <i>Medical Physics</i> , <b>2009</b> , 36, 190-200	4.4	5
97	Response to Comments on Inflation chamber volume determination and quality assurance using micro-CT imaging. <i>Physics in Medicine and Biology</i> , <b>2009</b> , 54, 29-30	3.8	1
96	Study of subchondral bone adaptations in a rodent surgical model of OA using in vivo micro-computed tomography. <i>Osteoarthritis and Cartilage</i> , <b>2008</b> , 16, 458-69	6.2	58



95	In vivo small-animal imaging using micro-CT and digital subtraction angiography. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, R319-50	3.8	206
94	Registration of a needle-positioning robot to high-resolution 3D ultrasound and computed tomography for image-guided interventions in small animals <b>2008</b> ,		1
93	PIV-measured versus CFD-predicted flow dynamics in anatomically realistic cerebral aneurysm models. <i>Journal of Biomechanical Engineering</i> , <b>2008</b> , 130, 021015	2.1	148
92	Ionization chamber volume determination and quality assurance using micro-CT imaging. <i>Physics in Medicine and Biology</i> , <b>2008</b> , 53, 5029-43	3.8	6
91	Co-registration of a needle-positioning device with a volumetric x-ray micro-computed tomography scanner for image-guided preclinical interventions <b>2008</b> ,		1
90	Implementation of dual- and triple-energy cone-beam micro-CT for postreconstruction material decomposition. <i>Medical Physics</i> , <b>2008</b> , 35, 5030-42	4.4	82
89	Contrast-enhanced microcomputed tomography using intraperitoneal contrast injection for the assessment of tumor-burden in liver metastasis models. <i>Investigative Radiology</i> , <b>2008</b> , 43, 488-95	10.1	16
88	Four dimensional intravenous cone-beam computed tomographic subtraction angiography. In vitro study of feasibility. <i>Investigative Radiology</i> , <b>2008</b> , 43, 753-61	10.1	5
87	Noninvasive quantification of tumor volume in preclinical liver metastasis models using contrast-enhanced x-ray computed tomography. <i>Investigative Radiology</i> , <b>2008</b> , 43, 92-9	10.1	29
86	The effect of the density-modulus relationship selected to apply material properties in a finite element model of long bone. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 3171-6	2.9	64
85	On the effect of parent-aneurysm angle on flow patterns in basilar tip aneurysms: towards a surrogate geometric marker of intra-aneurismal hemodynamics. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 241-8	2.9	47
84	Development of an RSA calibration system with improved accuracy and precision. <i>Journal of Biomechanics</i> , <b>2008</b> , 41, 907-11	2.9	19
83	Use of an ultrasound blood-mimicking fluid for Doppler investigations of turbulence in vitro. <i>Ultrasound in Medicine and Biology</i> , <b>2008</b> , 34, 1163-73	3.5	19
82	Doppler ultrasound compatible plastic material for use in rigid flow models. <i>Ultrasound in Medicine and Biology</i> , <b>2008</b> , 34, 1846-56	3.5	41
81	A quality assurance phantom for the performance evaluation of volumetric micro-CT systems. <i>Physics in Medicine and Biology</i> , <b>2007</b> , 52, 7087-108	3.8	110
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