David Mitton

List of Publications by Year
in descending order

141 papers	3,265 citations	126858 33 h-index	189801 50 g-index
151 all docs	151 docs citations	151 times ranked	2631 citing authors

#	Article	IF	Citations
1	Fast accurate stereoradiographic 3D-reconstruction of the spine using a combined geometric and statistic model. Clinical Biomechanics, 2004, 19, 240-247.	0.5	173
2	Volumetric quantitative computed tomography of the proximal femur: relationships linking geometric and densitometric variables to bone strength. Role for compact bone. Osteoporosis International, 2006, 17, 855-864.	1.3	167
3	3D reconstruction method from biplanar radiography using non-stereocorresponding points and elastic deformable meshes. Medical and Biological Engineering and Computing, 2000, 38, 133-139.	1.6	142
4	Surgical Correction of Scoliosis by In Situ Contouring. Spine, 2004, 29, 193-199.	1.0	120
5	A Biplanar Reconstruction Method Based on 2D and 3D Contours: Application to the Distal Femur. Computer Methods in Biomechanics and Biomedical Engineering, 2003, 6, 1-6.	0.9	119
6	Prediction of mechanical properties of cortical bone by quantitative computed tomography. Medical Engineering and Physics, 2008, 30, 321-328.	0.8	96
7	High-Resolution Computed Tomography for Architectural Characterization of Human Lumbar Cancellous Bone: Relationships with Histomorphometry and Biomechanics. Osteoporosis International, 1999, 10, 353-360.	1.3	64
8	3D reconstruction of the pelvis from bi-planar radiography. Computer Methods in Biomechanics and Biomedical Engineering, 2006, 9, 1-5.	0.9	61
9	Apparent Young's modulus of human radius using inverse finite-element method. Journal of Biomechanics, 2007, 40, 2022-2028.	0.9	59
10	Dynamic stiffness and damping of human intervertebral disc using axial oscillatory displacement under a free mass system. European Spine Journal, 2003, 12, 562-566.	1.0	55
11	Biological and Biomechanical Evaluation of the Ligament Advanced Reinforcement System (LARS AC) in a Sheep Model of Anterior Cruciate Ligament Replacement: A 3-Month and 12-Month Study. Arthroscopy - Journal of Arthroscopic and Related Surgery, 2013, 29, 1079-1088.	1.3	54
12	An anatomical subject-specific FE-model for hip fracture load prediction. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 105-111.	0.9	53
13	True stress and Poisson's ratio of tendons during loading. Journal of Biomechanics, 2011, 44, 719-724.	0.9	52
14	Assessment of cortical bone elasticity and strength: Mechanical testing and ultrasound provide complementary data. Medical Engineering and Physics, 2009, 31, 1140-1147.	0.8	50
15	Personalized Body Segment Parameters From Biplanar Low-Dose Radiography. IEEE Transactions on Biomedical Engineering, 2005, 52, 1756-1763.	2.5	49
16	The effects of density and test conditions on measured compression and shear strength of cancellous bone from the lumbar vertebrae of ewes. Medical Engineering and Physics, 1997, 19, 464-474.	0.8	48
17	Bone cortical thickness and porosity assessment using ultrasound guided waves: An ex vivo validation study. Bone, 2018, 116, 111-119.	1.4	48
18	3D reconstruction of the proximal femur with low-dose digital stereoradiography. Computer Aided Surgery, 2004, 9, 51-57.	1.8	43

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19	Hyper-elastic properties of the human sternocleidomastoideus muscle in tension. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 15, 131-140.	1.5	43
20	Abdominal wall muscle elasticity and abdomen local stiffness on healthy volunteers during various physiological activities. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 60, 451-459.	1.5	42
21	Prediction of bone mechanical properties using QUS and pQCT: Study of the human distal radius. Medical Engineering and Physics, 2008, 30, 761-767.	0.8	41
22	Three-dimensional rotations of human three-joint fingers: an optoelectronic measurement. Preliminary results. Surgical and Radiologic Anatomy, 2005, 27, 43-50.	0.6	40
23	Mechanical response of human abdominal walls ex vivo: Effect of an incisional hernia and a mesh repair. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 38, 126-133.	1.5	40
24	Mechanical Properties of Ewe Vertebral Cancellous Bone Compared With Histomorphometry and High-Resolution Computed Tomography Parameters. Bone, 1998, 22, 651-658.	1.4	39
25	3D analysis from micro-MRI during in situ compression on cancellous bone. Journal of Biomechanics, 2009, 42, 2381-2386.	0.9	39
26	Nonlinear ultrasound can detect accumulated damage in human bone. Journal of Biomechanics, 2008, 41, 1062-1068.	0.9	38
27	Prediction of Femoral Fracture Load: Cross-sectional Study of Texture Analysis and Geometric Measurements on Plain Radiographs versus Bone Mineral Density. Radiology, 2010, 255, 536-543.	3.6	38
28	Prediction of Hip Failure Load: In Vitro Study of 80 Femurs Using Three Imaging Methods and Finite Element Modelsâ€"The European Fracture Study (EFFECT). Radiology, 2016, 280, 837-847.	3.6	38
29	Three-dimensional surface rendering reconstruction of scoliotic vertebrae using a non stereo-corresponding points technique. European Spine Journal, 2002, 11, 344-352.	1.0	37
30	Fast 3D reconstruction of the rib cage from biplanar radiographs. Medical and Biological Engineering and Computing, 2010, 48, 821-828.	1.6	36
31	Three-dimensional X-ray absorptiometry (3D-XA): a method for reconstruction of human bones using a dual X-ray absorptiometry device. Osteoporosis International, 2005, 16, 969-976.	1.3	35
32	Relationships between viscoelastic properties of lumbar intervertebral disc and degeneration grade assessed by MRI. Journal of the Mechanical Behavior of Biomedical Materials, 2011, 4, 593-599.	1.5	35
33	3D reconstruction of the ribs from lateral and frontal X-rays in comparison to 3D CT-scan reconstruction. Journal of Biomechanics, 2008, 41, 706-710.	0.9	34
34	Parametric subject-specific model for in vivo 3D reconstruction using bi-planar X-rays: application to the upper femoral extremity. Medical and Biological Engineering and Computing, 2008, 46, 799-805.	1.6	34
35	Quantitative geometric analysis of rib, costal cartilage and sternum from childhood to teenagehood. Medical and Biological Engineering and Computing, 2013, 51, 971-979.	1.6	34
36	Explicit calibration method and specific device designed for stereoradiography. Journal of Biomechanics, 2003, 36, 827-834.	0.9	31

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37	Effect of two loading rates on the elasticity of the human anterior rectus sheath. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 20, 1-5.	1.5	31
38	Non Destructive Characterization of Cortical Bone Micro-Damage by Nonlinear Resonant Ultrasound Spectroscopy. PLoS ONE, 2014, 9, e83599.	1.1	31
39	Anisotropic elastic properties of human femoral cortical bone and relationships with composition and microstructure in elderly. Acta Biomaterialia, 2019, 90, 254-266.	4.1	31
40	Mechanical response of animal abdominal walls in vitro: Evaluation of the influence of a hernia defect and a repair with a mesh implanted intraperitoneally. Journal of Biomechanics, 2013, 46, 561-566.	0.9	30
41	Three-dimensional (3D) detailed reconstruction of human vertebrae from low-dose digital stereoradiography. European Journal of Orthopaedic Surgery and Traumatology, 2003, 13, 57-62.	0.6	29
42	Validation of the relative 3D orientation of vertebrae reconstructed by bi-planar radiography. Medical Engineering and Physics, 2004, 26, 415-422.	0.8	29
43	Mechanical properties of glenoid cancellous bone. Clinical Biomechanics, 2010, 25, 292-298.	0.5	29
44	Application of nonlinear dynamics to monitoring progressive fatigue damage in human cortical bone. Applied Physics Letters, 2007, 91, .	1.5	28
45	Normal range-of-motion of trapeziometacarpal joint. Chirurgie De La Main, 2009, 28, 297-300.	0.7	27
46	Quantitative morphometric study of thoracic spine A preliminary parameters statistical analysis. European Journal of Orthopaedic Surgery and Traumatology, 2000, 10, 85-91.	0.6	26
47	3D Evaluation of the acetabular coverage assessed by biplanar X-rays or single anteroposterior X-ray compared with CT-scan. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 257-262.	0.9	26
48	Apparent Young's modulus of vertebral cortico-cancellous bone specimens. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 23-28.	0.9	26
49	Strain rate influence on human cortical bone toughness: A comparative study of four paired anatomical sites. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 71, 223-230.	1.5	26
50	Effect of a supercritical CO2 based treatment on mechanical properties of human cancellous bone. European Journal of Orthopaedic Surgery and Traumatology, 2005, 15, 264-269.	0.6	25
51	Axial speed of sound is related to tendon's nonlinear elasticity. Journal of Biomechanics, 2012, 45, 263-268.	0.9	25
52	Three-Dimensional Quantitative Segmental Analysis of Scoliosis Corrected by the In Situ Contouring Technique. Spine, 2003, 28, 1158-1162.	1.0	23
53	Contribution of the skin, rectus abdominis and their sheaths to the structural response of the abdominal wall ex vivo. Journal of Biomechanics, 2014, 47, 3056-3063.	0.9	23
54	Dynamic stiffness and damping of porcine muscle specimens. Medical Engineering and Physics, 2003, 25, 795-799.	0.8	21

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55	Biomechanics of the deltoideus. Surgical and Radiologic Anatomy, 2006, 28, 76-81.	0.6	21
56	Role of deltoid and passives elements in stabilization during abduction motion (0Â°â€“40Â°): an ex vivo study. Surgical and Radiologic Anatomy, 2008, 30, 563-568.	0.6	21
57	Viscoelastic properties of the human sternocleidomastoideus muscle of aged women in relaxation. Journal of the Mechanical Behavior of Biomedical Materials, 2013, 27, 77-83.	1.5	21
58	Finite element simulation of spinal deformities correction byin situcontouring technique. Computer Methods in Biomechanics and Biomedical Engineering, 2005, 8, 331-337.	0.9	20
59	Assessment of Femoral Neck Strength by 3-Dimensional X-ray Absorptiometry. Journal of Clinical Densitometry, 2006, 9, 425-430.	0.5	20
60	Relationships between human cortical bone toughness and collagen cross-links on paired anatomical locations. Bone, 2018, 112, 202-211.	1.4	20
61	3D micro structural analysis of human cortical bone in paired femoral diaphysis, femoral neck and radial diaphysis. Journal of Structural Biology, 2018, 204, 182-190.	1.3	20
62	Euler strut.cavity , a New Histomorphometric Parameter of Connectivity Reflects Bone Strength and Speed of Sound in Trabecular Bone from Human Os Calcis. Calcified Tissue International, 2007, 81, 92-98.	1.5	18
63	Minimally invasive screw plates for surgery of unstable intertrochanteric femoral fractures: A biomechanical comparative study. Clinical Biomechanics, 2008, 23, 1012-1017.	0.5	18
64	3D detailed reconstruction of vertebrae with low dose digital stereoradiography. Studies in Health Technology and Informatics, 2002, 91, 286-90.	0.2	18
65	Comparative ultrasound evaluation of human trabecular bone graft properties after treatment with different sterilization procedures. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2009, 90B, 430-437.	1.6	17
66	A Linear Laser Scanner to Measure Cross-Sectional Shape and Area of Biological Specimens During Mechanical Testing. Journal of Biomechanical Engineering, 2010, 132, 105001.	0.6	16
67	Comparison between bone density and bone strength in glucocorticoid-treated aged ewes. Bone, 1995, 17, S409-S414.	1.4	15
68	Prediction of the Vertebral Strength Using a Finite Element Model Derived From Low-Dose Biplanar Imaging. Spine, 2012, 37, E156-E162.	1.0	15
69	An investigation of segmentation methods and texture analysis applied to tomographic images of human vertebral cancellous bone. Journal of Microscopy, 2000, 197, 305-316.	0.8	14
70	HUMOS (Human Model for Safety) Geometry: From One Specimen to the 5thand 95thPercentile. , 0, , .		14
71	In vivo 3D reconstruction of human vertebrae with the three-dimensional X-ray absorptiometry (3D-XA) method. Osteoporosis International, 2008, 19, 185-192.	1.3	14
72	Bone mineral density assessment using the EOSÂ® low-dose X-ray device: A feasibility study. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2008, 222, 1263-1271.	1.0	14

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73	Monitoring trabecular bone microdamage using a dynamic acousto-elastic testing method. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2010, 1, 1-14.	1.0	14
74	Subject-specific body segment parameters' estimation using biplanar X-rays: a feasibility study. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 649-654.	0.9	14
75	Sensitivity of patient-specific vertebral finite element model from low dose imaging to material properties and loading conditions. Medical and Biological Engineering and Computing, 2011, 49, 1355-1361.	1.6	14
76	LigartÂ: ligament synthÃ©tique Â«ÂbioactifÂÂ» et Â«ÂbiointÃ©grableÂÂ»Âpermettant la rÃ©habilitation rapide du patientÂ: greffage chimique, Ã©valuations biologiques in vivo, expÃ©rimentation animale, Ã©tude prÃ©clinique. Irbm, 2011, 32, 118-122.	3.7	14
77	Three-dimensional reconstruction of the rib cage from biplanar radiography. Irbm, 2008, 29, 278-286.	3.7	13
78	Rotations of three-joint fingers: a radiological study. Surgical and Radiologic Anatomy, 2004, 26, 392-8.	0.6	12
79	3D kinematics of the glenohumeral joint during abduction motion: an ex vivo study. Surgical and Radiologic Anatomy, 2007, 29, 291-295.	0.6	12
80	First Application of Axial Speed of Sound to Follow Up Injured Equine Tendons. Ultrasound in Medicine and Biology, 2012, 38, 162-167.	0.7	12
81	3D analysis of the osteonal and interstitial tissue in human radii cortical bone. Bone, 2019, 127, 526-536.	1.4	12
82	External and internal geometry of European adults. Ergonomics, 2006, 49, 1547-1564.	1.1	11
83	Lumbar intervertebral disc mobility: effect of disc degradation and of geometry. European Journal of Orthopaedic Surgery and Traumatology, 2007, 17, 533-541.	0.6	11
84	Biomechanical characterization of ex vivo human brain using ultrasound shear wave spectroscopy. Ultrasonics, 2018, 84, 119-125.	2.1	10
85	Fracture Risk Evaluation of Bone Metastases: A Burning Issue. Cancers, 2021, 13, 5711.	1.7	10
86	The non-linear response of a muscle in transverse compression: assessment of geometry influence using a finite element model. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 13-21.	0.9	9
87	Axial speed of sound for the monitoring of injured equine tendons: A preliminary study. Journal of Biomechanics, 2012, 45, 53-58.	0.9	8
88	Quantification of nonlinear elasticity for the evaluation of submillimeter crack length in cortical bone. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 48, 210-219.	1.5	8
89	Personalised 3D reconstruction of proximal femur from low-dose digital biplanar radiographs. International Congress Series, 2003, 1256, 214-219.	0.2	7
90	Title is missing!. Spine, 2003, 28, 1158-1162.	1.0	7

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91	Short isthmic versus long trans-isthmic C2 screw: anatomical and biomechanical evaluation. European Journal of Orthopaedic Surgery and Traumatology, 2016, 26, 785-791.	0.6	7
92	An ex vivo experiment to reproduce a forward fall leading to fractured and non-fractured radii. Journal of Biomechanics, 2017, 63, 174-178.	0.9	7
93	Influence of loading condition and anatomical location on human cortical bone linear micro-cracks. Journal of Biomechanics, 2019, 85, 59-66.	0.9	7
94	Dynamics of Homemade Aortic Endografts: In Vivo Study in Humans with Computed Tomography Scanner Modeling. Annals of Vascular Surgery, 2010, 24, 127-139.	0.4	6
95	Non-destructive assessment of human ribs mechanical properties using quantitative ultrasound. Journal of Biomechanics, 2014, 47, 1548-1553.	0.9	6
96	Static Mechanical Properties of Custom-Made Aortic Endografts. Annals of Vascular Surgery, 2005, 19, 293-301.	0.4	5
97	Subject-specific mechanical properties of vertebral cancellous bone assessed using a low-dose X-ray device. Irbm, 2010, 31, 148-153.	3.7	5
98	Modelling of human muscle behaviour with a hyper-elastic constitutive law. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 63-64.	0.9	5
99	In vivo kinematics of the first carpometacarpal joint after trapezectomy. Chirurgie De La Main, 2011, 30, 97-101.	0.7	5
100	Relationship between human rib mechanical properties and cortical bone density measured by high-resolution quantitative computed tomography. Computer Methods in Biomechanics and Biomedical Engineering, 2013, 16, 191-192.	0.9	5
101	Experimental characterization of post rigor mortis human muscle subjected to small tensile strains and application of a simple hyper-viscoelastic model. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 1059-1068.	1.0	5
102	Three-dimensional reconstruction of the human spine from bi-planar radiographs: using multiscale wavelet analysis and spline interpolators for semi-automation. , 2003, , .		4
103	ANTERIOR BENDING ON WHOLE VERTEBRAE USING CONTROLLED BOUNDARY CONDITIONS FOR MODEL VALIDATION. Journal of Musculoskeletal Research, 2009, 12, 71-76.	0.1	4
104	Non-invasive assessment of human ribs mechanical properties. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 195-196.	0.9	4
105	In Vivo Assessment of Elasticity of Child Rib Cortical Bone Using Quantitative Computed Tomography. Applied Bionics and Biomechanics, 2017, 2017, 1-9.	0.5	4
106	Fast semiautomatic stereoradiographic reconstruction of scoliotic spines using multi-scale image processing and statistical geometric models. International Congress Series, 2003, 1256, 207-213.	0.2	3
107	Reproducibility evaluation of rib cage 3D reconstruction from stereoradiography. Computer Methods in Biomechanics and Biomedical Engineering, 2005, 8, 37-38.	0.9	3
108	Youngâ€™s modulus repeatability assessment using cycling compression loading on cancellous bone. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2011, 225, 1113-1117.	1.0	3

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109	Effect of strain rate on the toughness of human tibial cortical bone. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 1942-1943.	0.9	3
110	InÂvitro implantâ€“bone interface pressure measurements for a cementless femoral implant. A preliminary study. Journal of Orthopaedic Science, 2016, 21, 487-492.	0.5	3
111	Bone Overview. , 2011, , 1-28.		3
112	Biomechanical experiments on artificial ligaments for the ACL reconstruction. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 31-32.	0.9	2
113	Measurement of cross-sectional area variations of five equine superficial digital flexor tendons during tension. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 143-144.	0.9	2
114	Effect of intra-tibial injection on mechanical properties of mouse bone. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, S57-S58.	0.9	2
115	Ex Vivo Radius Fracture Discrimination from Cortical Thickness and Porosity Obtained by Axial Transmission. , 2018, , .		2
116	What is the influence of two strain rates on the relationship between human cortical bone toughness and micro-structure?. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 247-254.	1.0	2
117	Influence of loading conditions in finite element analysis assessed by HRâ€“pQCT on ex vivo fracture prediction. Bone, 2022, 154, 116206.	1.4	2
118	3D RECONSTRUCTION OF THE SPINE FROM BIPLANAR X-RAYS USING LONGITUDINAL AND TRANSVERSAL INFERENCES. Journal of Biomechanics, 2007, 40, S160.	0.9	1
119	Subject-specific mass and 3D localisation of the mass centre of child body segments using biplanar X-rays. Computer Methods in Biomechanics and Biomedical Engineering, 2008, 11, 203-204.	0.9	1
120	Prediction of the vertebral strength using a subject-specific finite-element model. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 225-226.	0.9	1
121	ESTIMATION OF EXTERNAL AND INTERNAL HUMAN BODY DIMENSIONS FROM FEW EXTERNAL MEASUREMENTS. Journal of Musculoskeletal Research, 2009, 12, 191-204.	0.1	1
122	Nonlinear ultrasound monitoring of fatigue microdamage accumulation in cortical bone. , 2011, , .		1
123	Mechanical behaviour of the in vivo paediatric and adult trunk during respiratory physiotherapy. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2014, 228, 27-36.	1.0	1
124	Homogeneous and heterogeneous finite element models to predict radius bone strength in forward fall configuration. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 2084-2085.	0.9	1
125	Failure Prediction of Tumoral Bone with Osteolytic Lesion in Mice. Advanced Structured Materials, 2020, , 17-34.	0.3	1
126	Biomechanical evaluation of a bioactive artificial anterior cruciate ligament. Advances in Biomechanics and Applications, 2014, 1, 239-252.	0.2	1

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127	Determination of personalized inertial parameters of lower limb by biplanar low-dose radiography. International Congress Series, 2004, 1268, 19-24.	0.2	0
128	P3F-4 Ultrasonic Consequence of Different Common Sterilization Treatments Applied to Human Bone Before Transplantation. , 2006, , .		0
129	Bone mineral density (BMD) assessment using the EOSÂ®low-dose X-ray device: A feasibility study. Computer Methods in Biomechanics and Biomedical Engineering, 2007, 10, 49-50.	0.9	0
130	Quasi-static compression on dog muscles at high strain. Computer Methods in Biomechanics and Biomedical Engineering, 2009, 12, 131-132.	0.9	0
131	DÃ©tection du micro-endommagement dans le tissu osseux trabÃ©culaire par une mÃ©thode dâ€™acousto-Ã©lasticitÃ© dynamique. Irbm, 2011, 32, 269-273.	3.7	0
132	First application of an axial speed of sound measurement technique in the monitoring of tendon healing. Computer Methods in Biomechanics and Biomedical Engineering, 2011, 14, 257-259.	0.9	0
133	Geometric variability of ribs, costal cartilages and sternums from childhood to teenage. Computer Methods in Biomechanics and Biomedical Engineering, 2012, 15, 277-278.	0.9	0
134	Patient-Specific Computational Abdominal Wall Modeling: Application to Mid-Line Laparotomy Closure. , 2013, , .		0
135	A methodology to assess non-axial loading on the distal radius. Computer Methods in Biomechanics and Biomedical Engineering, 2014, 17, 44-45.	0.9	0
136	Costal cartilage elasticity can be estimated non-destructively using speed of sound. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 2032-2033.	0.9	0
137	Influence of the degree of mineralization of the cortical bone on toughness. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, S87-S88.	0.9	0
138	3D assessment and simulation of surgical correction of spine deformities by in situ contouring technique. , 2002, , 291-296.		0
139	Accuracy of the 3D angular position of vertebrae reconstructed by low dose digital stereoradiography. , 2002, , 1061-1061.		0
140	Biomechanics and Spinal Modelling. , 2020, , 491-503.		0
141	A credible homogenized finite element model to predict radius fracture in the case of a forward fall.. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 131, 105206.	1.5	0