

# Mark J Pearcy

## List of Publications by Year in descending order

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142  
papers

7,261  
citations

76196

40  
h-index

58464

82  
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143  
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143  
docs citations

143  
times ranked

6587  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of progressive changes in pedicle morphometry and neurovascular anatomy during growth in adolescent idiopathic scoliosis versus adolescents without scoliosis. <i>Spine Deformity</i> , 2020, 8, 1193-1204.	0.7	8
2	The effect of vertebral body stapling on spine biomechanics and structure using a bovine model. <i>Clinical Biomechanics</i> , 2020, 74, 73-78.	0.5	1
3	Predicting spinal profile using 3D non-contact surface scanning: Changes in surface topography as a predictor of internal spinal alignment. <i>PLoS ONE</i> , 2019, 14, e0222453.	1.1	8
4	Mechanical Function of the Nucleus Pulposus of the Intervertebral Disc Under High Rates of Loading. <i>Spine</i> , 2019, 44, 1035-1041.	1.0	23
5	Minimizing Spine Autofusion With the Use of Semiconstrained Growing Rods for Early Onset Scoliosis in Children. <i>Journal of Pediatric Orthopaedics</i> , 2018, 38, e562-e571.	0.6	3
6	Role of the Middle Lumbar Fascia on Spinal Mechanics. <i>Spine</i> , 2017, 42, E459-E465.	1.0	4
7	Load-induced changes in the diffusion tensor of ovine anulus fibrosus: A pilot MRI study. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, spcone-spcone.	1.9	0
8	Load-induced changes in the diffusion tensor of ovine anulus fibrosus: A pilot MRI study. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 1723-1735.	1.9	10
9	Sequential Magnetic Resonance Imaging Reveals Individual Level Deformities of Vertebrae and Discs in the Growing Scoliotic Spine. <i>Spine Deformity</i> , 2017, 5, 197-207.	0.7	10
10	A comparison of vertebral venous networks in adolescent idiopathic scoliosis patients and healthy controls. <i>Surgical and Radiologic Anatomy</i> , 2017, 39, 281-291.	0.6	4
11	Is There Asymmetry Between the Concave and Convex Pedicles in Adolescent Idiopathic Scoliosis? A CT Investigation. <i>Clinical Orthopaedics and Related Research</i> , 2017, 475, 884-893.	0.7	41
12	A comparison of four techniques to measure anterior and posterior vertebral body heights and sagittal plane wedge angles in adolescent idiopathic scoliosis. <i>Medical and Biological Engineering and Computing</i> , 2017, 55, 561-572.	1.6	2
13	Is vertebral rotation correction maintained after thoracoscopic anterior scoliosis surgery? A low-dose computed tomography study. <i>Scoliosis and Spinal Disorders</i> , 2017, 12, 22.	2.3	2
14	Quantifying Progressive Anterior Overgrowth in the Thoracic Vertebrae of Adolescent Idiopathic Scoliosis Patients. <i>Spine</i> , 2016, 41, E382-E387.	1.0	18
15	Morphometric Analysis of the Thoracic Intervertebral Foramen Osseous Anatomy in Adolescent Idiopathic Scoliosis Using Low-Dose Computed Tomography. <i>Spine Deformity</i> , 2016, 4, 182-192.	0.7	7
16	Understanding how axial loads on the spine influence segmental biomechanics for idiopathic scoliosis patients: A magnetic resonance imaging study. <i>Clinical Biomechanics</i> , 2016, 32, 220-228.	0.5	13
17	Comparison of Silicate-Substituted Calcium Phosphate (Actifuse) with Recombinant Human Bone Morphogenetic Protein-2 (Infuse) in Posterolateral Instrumented Lumbar Fusion. <i>Global Spine Journal</i> , 2015, 5, 471-478.	1.2	15
18	Growing rod analysis for the fusionless correction of Early Onset Scoliosis (EOS). <i>Scoliosis</i> , 2015, 10,	0.4	1

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19	Gravity-induced coronal plane joint moments in adolescent idiopathic scoliosis. <i>Scoliosis</i> , 2015, 10, 35.	0.4	1
20	A Compliant, Banded Outflow Cannula for Decreased Afterload Sensitivity of Rotary Right Ventricular Assist Devices. <i>Artificial Organs</i> , 2015, 39, 102-109.	1.0	11
21	The effect of endplate preselection when measuring supine versus standing cobb angle change in idiopathic scoliosis. <i>Scoliosis</i> , 2015, 10, .	0.4	0
22	A biomechanical investigation of dual growing rods used for fusionless scoliosis correction. <i>Clinical Biomechanics</i> , 2015, 30, 33-39.	0.5	8
23	A semiautomatic method to identify vertebral end plate lesions (Schmorl's nodes). <i>Spine Journal</i> , 2015, 15, 1665-1673.	0.6	2
24	Supine to standing Cobb angle change in idiopathic scoliosis: the effect of endplate pre-selection. <i>Scoliosis</i> , 2014, 9, 16.	0.4	18
25	The effect of repeated loading and freeze-thaw cycling on immature bovine thoracic motion segment stiffness. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 1100-1107.	1.0	8
26	Mechanical tension as a driver of connective tissue growth in vitro. <i>Medical Hypotheses</i> , 2014, 83, 111-115.	0.8	5
27	Segmental torso masses in adolescent idiopathic scoliosis. <i>Clinical Biomechanics</i> , 2014, 29, 773-779.	0.5	9
28	Ability of modal analysis to detect osseointegration of implants in transfemoral amputees: a physical model study. <i>Medical and Biological Engineering and Computing</i> , 2013, 51, 39-47.	1.6	12
29	Anatomic Fitting of Total Artificial Hearts for In Vivo Evaluation. <i>Artificial Organs</i> , 2013, 37, 735-741.	1.0	3
30	Evaluation of Inflow Cannulation Site for Implantation of Right-Sided Rotary Ventricular Assist Device. <i>Artificial Organs</i> , 2013, 37, 704-711.	1.0	12
31	Computational Fluid Dynamic Analysis of Intracranial Aneurysmal Bleb Formation. <i>Neurosurgery</i> , 2013, 73, 1061-1069.	0.6	38
32	Passive Control of a Biventricular Assist Device With Compliant Inflow Cannulae. <i>Artificial Organs</i> , 2012, 36, 683-690.	1.0	14
33	Shortening Cemented Femoral Implants. <i>Journal of Arthroplasty</i> , 2012, 27, 934-939.	1.5	9
34	Frank-starling control of a left ventricular assist device. , 2011, 2011, 1335-8.		21
35	Computational model of the lumbar spine musculature: Implications of spinal surgery. <i>Clinical Biomechanics</i> , 2011, 26, 116-122.	0.5	9
36	A Compact Mock Circulation Loop for the In Vitro Testing of Cardiovascular Devices. <i>Artificial Organs</i> , 2011, 35, 384-391.	1.0	90

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37	In Vitro Evaluation of a Compliant Inflow Cannula Reservoir to Reduce Suction Events With Extracorporeal Rotary Ventricular Assist Device Support. <i>Artificial Organs</i> , 2011, 35, 765-772.	1.0	11
38	Replication of the Frank-Starling response in a mock circulation loop. , 2011, 2011, 6825-8.		37
39	Evaluation of modal analysis techniques using physical models to detect osseointegration of implants in transfemoral amputees. , 2011, 2011, 1600-3.		8
40	A new approach for assigning bone material properties from CT images into finite element models. <i>Journal of Biomechanics</i> , 2010, 43, 1011-1015.	0.9	75
41	A three-dimensional mathematical model of the thoracolumbar fascia and an estimate of its biomechanical effect. <i>Journal of Biomechanics</i> , 2010, 43, 2792-2797.	0.9	38
42	Development of a multi-scale finite element model of the osteoporotic lumbar vertebral body for the investigation of apparent level vertebra mechanics and micro-level trabecular mechanics. <i>Medical Engineering and Physics</i> , 2010, 32, 653-661.	0.8	33
43	The mechanical response of the ovine lumbar anulus fibrosus to uniaxial, biaxial and shear loads. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2010, 3, 146-157.	1.5	31
44	Optimizing the Response From a Passively Controlled Biventricular Assist Device. <i>Artificial Organs</i> , 2010, 34, 393-401.	1.0	8
45	A Passively Controlled Biventricular Support Device. <i>Artificial Organs</i> , 2010, 34, 473-480.	1.0	9
46	Atrial Versus Ventricular Cannulation for a Rotary Ventricular Assist Device. <i>Artificial Organs</i> , 2010, 34, 714-720.	1.0	22
47	Load on Osseointegrated Fixation of a Transfemoral Amputee During a Fall. <i>Prosthetics and Orthotics International</i> , 2010, 34, 85-97.	0.5	55
48	Computational investigations of mechanical failures of internal plate fixation. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2010, 224, 119-126.	1.0	41
49	Artificial lumbar intervertebral disc replacement: accepted practice or experimental surgery?. <i>Expert Review of Medical Devices</i> , 2010, 7, 855-860.	1.4	6
50	Simulation and enhancement of a cardiovascular device test rig. <i>Journal of Simulation</i> , 2010, 4, 34-41.	1.0	26
51	Apparatus for monitoring load bearing rehabilitation exercises of a transfemoral amputee fitted with an osseointegrated fixation: A proof-of-concept study. <i>Gait and Posture</i> , 2010, 31, 223-228.	0.6	36
52	A naturally shaped silicone ventricle evaluated in a mock circulation loop: A preliminary study. <i>Journal of Medical Engineering and Technology</i> , 2009, 33, 185-191.	0.8	14
53	Simulation of the nutrient supply in fracture healing. <i>Journal of Biomechanics</i> , 2009, 42, 2575-2583.	0.9	47
54	Development of a biaxial compression device for biological samples: Preliminary experimental results for a closed cell foam. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2009, 2, 305-309.	1.5	5

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55	The BiVACOR Rotary Biventricular Assist Device: Concept and In Vitro Investigation. <i>Artificial Organs</i> , 2008, 32, 816-819.	1.0	62
56	FE stress analysis of the interface between the bone and an osseointegrated implant for amputees – Implications to refine the rehabilitation program. <i>Clinical Biomechanics</i> , 2008, 23, 1243-1250.	0.5	45
57	Are coupled rotations in the lumbar spine largely due to the osseo-ligamentous anatomy? – A modeling study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2008, 11, 95-103.	0.9	43
58	Are coupled rotations in the lumbar spine largely due to the osseo-ligamentous anatomy? – A modelling study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2008, 11, 214-214.	0.9	1
59	Gravity-Induced Torque and Intravertebral Rotation in Idiopathic Scoliosis. <i>Spine</i> , 2008, 33, E30-E37.	1.0	24
60	A robotic testing facility for the measurement of the mechanics of spinal joints. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2007, 221, 221-227.	1.0	15
61	Re-design of the Exeter V40 long-stem femoral component for ease of removal. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2007, 221, 195-201.	1.0	3
62	Three-Dimensional Lumbar Spine Postures Measured by Magnetic Resonance Imaging Reconstruction. <i>Spine</i> , 2007, 32, 1242-1248.	1.0	13
63	In Vitro Analysis of Exeter Stem Torsional Stability. <i>Journal of Arthroplasty</i> , 2007, 22, 1024-1030.	1.5	7
64	Kinetics of transfemoral amputees with osseointegrated fixation performing common activities of daily living. <i>Clinical Biomechanics</i> , 2007, 22, 665-673.	0.5	96
65	Thermomechanical investigation of the cortical bone analogue in third-generation Sawbones femurs. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2007, 221, 213-217.	1.0	6
66	Nonlinear finite element analysis of anular lesions in the L4/5 intervertebral disc. <i>Journal of Biomechanics</i> , 2007, 40, 2744-2751.	0.9	64
67	Modelling external bone adaptation using evolutionary structural optimisation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2007, 6, 275-285.	1.4	21
68	Parametric equations to represent the profile of the human intervertebral disc in the transverse plane. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 939-945.	1.6	16
69	Comparison of two numerical approaches for bone remodelling. <i>Medical Engineering and Physics</i> , 2007, 29, 134-139.	0.8	30
70	The role of quadratus lumborum asymmetry in the occurrence of lesions in the lumbar vertebrae of cricket fast bowlers. <i>Medical Engineering and Physics</i> , 2007, 29, 877-885.	0.8	25
71	The effect of soft tissue properties on overall biomechanical response of a human lumbar motion segment: a preliminary finite element study. <i>WIT Transactions on Biomedicine and Health</i> , 2007, , .	0.0	2
72	Coupled rotations in the lumbar spine – are these a consequence of passive spinal anatomy?. <i>WIT Transactions on Biomedicine and Health</i> , 2007, , .	0.0	3

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73	The effect of trabecular micro-architecture on vertebra biomechanics: a finite element investigation. WIT Transactions on Biomedicine and Health, 2007, , .	0.0	0
74	Aging Performance of a Compliant Layer Bearing Acetabular Prosthesis in an Ovine Hip Arthroplasty Model. Journal of Arthroplasty, 2006, 21, 899-906.	1.5	32
75	Abnormal Motion in Spondylolytic Spondylolisthesis. Spine, 2005, 30, 1159-1164.	1.0	42
76	Evaluation of Left Ventricular Assist Device Performance and Hydraulic Force in a Complete Mock Circulation Loop. Artificial Organs, 2005, 29, 573-580.	1.0	23
77	Timing of pulsed electromagnetic field stimulation does not affect the promotion of bone cell development. Bioelectromagnetics, 2005, 26, 670-676.	0.9	28
78	An experimental and finite element poroelastic creep response analysis of an intervertebral hydrogel disc model in axial compression. Journal of Materials Science: Materials in Medicine, 2005, 16, 663-669.	1.7	28
79	Mediation of Biomaterial-Cell Interactions by Adsorbed Proteins: A Review. Tissue Engineering, 2005, 11, 1-18.	4.9	1,464
80	Metal debris from bony resection in knee arthroplasty- is it an issue?. Monthly Notices of the Royal Astronomical Society: Letters, 2005, 76, 475-480.	1.2	17
81	The Long-Term Wear of Retrieved McKee-Farrar Metal-on-Metal Total Hip Prostheses. Journal of Arthroplasty, 2005, 20, 350-357.	1.5	62
82	A diffusion and T2 relaxation MRI study of the ovine lumbar intervertebral disc under compression in vitro. Physics in Medicine and Biology, 2004, 49, 3585-3592.	1.6	24
83	The mechanical effects of intervertebral disc lesions. Clinical Biomechanics, 2004, 19, 448-455.	0.5	52
84	Finite Element Simulation of an L4/5 Lumbar Intervertebral Disc (Soft Tissue Mechanics). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2004, 2004.1, 181-182.	0.0	0
85	The Relevance of Biomechanics to Orthopaedic Practice (Plenary Lectures). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2004, 2004.1, 3-4.	0.0	0
86	Initiation of Mechanical Derangement in the Anulus Fibrosus Ground Matrix (Soft Tissue Mechanics). The Proceedings of the Asian Pacific Conference on Biomechanics Emerging Science and Technology in Biomechanics, 2004, 2004.1, 183-184.	0.0	0
87	Defining the Neutral Zone of sheep intervertebral joints during dynamic motions: an in vitro study. Clinical Biomechanics, 2003, 18, 89-98.	0.5	97
88	Stress analysis of interbody fusion- a finite element modelling of intervertebral implant and vertebral body. Clinical Biomechanics, 2003, 18, 265-272.	0.5	48
89	Graphical presentation of the range of hip and knee rotations for clinical evaluation of gait. Clinical Biomechanics, 2001, 16, 84-86.	0.5	6
90	Modelling the line of action for the oblique abdominal muscles using an elliptical torso model. Journal of Biomechanics, 2001, 34, 1203-1207.	0.9	22

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91	Disc Lesions and the Mechanics of the Intervertebral Joint Complex. Spine, 2000, 25, 3026-3035.	1.0	60
92	Implant retrieval studies of the wear and loosening of prosthetic joints: a review. Wear, 2000, 241, 158-165.	1.5	99
93	The skeletal response to matt and polished cemented femoral stems. Journal of Bone and Joint Surgery: British Volume, 2000, 82, 1182-8.	3.4	6
94	A three-dimensional definition for the flexion/extension and abduction/adduction angles. Medical and Biological Engineering and Computing, 1999, 37, 440-444.	1.6	25
95	Kinematics and movement sequencing during flexion of the lumbar spine. Clinical Biomechanics, 1999, 14, 376-383.	0.5	42
96	Difficulties in Estimating Muscle Forces From Muscle Cross-Sectional Area. Spine, 1999, 24, 1487.	1.0	16
97	Power spectrum analysis of human femoral rotations during gait. Medical and Biological Engineering and Computing, 1997, 35, 553-555.	1.6	1
98	Clinical implications of stiffness and strength changes in fracture healing. Journal of Bone and Joint Surgery: British Volume, 1997, 79, 9-12.	3.4	36
99	In vitro human monocyte response to wear particles of titanium alloy containing vanadium or niobium. Journal of Bone and Joint Surgery: British Volume, 1997, 79, 311-5.	3.4	104
100	Three-dimensional analysis of active cervical motion: the effect of age and gender. Clinical Biomechanics, 1996, 11, 201-206.	0.5	118
101	Bilateral femoral rotations measured during walking: a new parameter to summarize and describe individual gait. Clinical Biomechanics, 1996, 11, 354-357.	0.5	2
102	Direct measurement of hoop strains in the intact and torn human medial meniscus. Clinical Biomechanics, 1996, 11, 295-300.	0.5	176
103	The reliability of postural sway measures using the 3space Tracker. Clinical Biomechanics, 1996, 11, 361-363.	0.5	5
104	Drug Inhibition of the Macrophage Response to Metal Wear Particles In Vitro. Clinical Orthopaedics and Related Research, 1996, 323, 316-326.	0.7	42
105	A Biological Basis for Instantaneous Centres of Rotation of the Vertebral Column. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 1995, 209, 177-183.	1.0	58
106	Mechanical properties of the human anterior cruciate ligament. Clinical Biomechanics, 1995, 10, 339-344.	0.5	53
107	Failure strengths of different meniscal suturing techniques. Arthroscopy - Journal of Arthroscopic and Related Surgery, 1995, 11, 146-150.	1.3	162
108	Mechanical consequences of annular tears and subsequent intervertebral disc degeneration. Clinical Biomechanics, 1994, 9, 211-219.	0.5	37

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109	A method for production and characterization of metal prosthesis wear particles. Journal of Orthopaedic Research, 1993, 11, 856-864.	1.2	30
110	THE AXIAL TORQUE OF THE LUMBAR BACK MUSCLES: TORSION STRENGTH OF THE BACK MUSCLES. ANZ Journal of Surgery, 1993, 63, 205-212.	0.3	28
111	Twisting Mobility of the Human Back in Flexed Postures. Spine, 1993, 18, 114-119.	1.0	61
112	The Effects of Flexion on the Geometry and Actions of the Lumbar Erector Spinae. Spine, 1993, 18, 884-893.	1.0	74
113	The Response to Particulate Debris. Orthopedic Clinics of North America, 1993, 24, 571-581.	0.5	123
114	A Universal Model of the Lumbar Back Muscles in the Upright Position. Spine, 1992, 17, 897-913.	1.0	296
115	Anatomy and biomechanics of psoas major. Clinical Biomechanics, 1992, 7, 109-119.	0.5	193
116	Correlations between the mechanical properties, radiology and histomorphometry of human femoral bone. Clinical Biomechanics, 1992, 7, 153-160.	0.5	5
117	Bioengineering Activities in the Department of Orthopaedic Surgery and Trauma, Royal Adelaide Hospital, Adelaide, South Australia. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 1991, 205, 257-259.	1.0	0
118	Three-dimensional kinematics of the human back. Clinical Biomechanics, 1990, 5, 218-228.	0.5	49
119	Mechanical function of the human lumbar interspinous and supraspinous ligaments. Journal of Biomedical Engineering, 1990, 12, 340-344.	0.7	67
120	New method for the non-invasive three-dimensional measurement of human back movement. Clinical Biomechanics, 1989, 4, 73-79.	0.5	183
121	Rotational mobility of the human back in forward flexion. Journal of Biomedical Engineering, 1989, 11, 219-223.	0.7	41
122	Soft layer lubrication of artificial hip joints. Journal of Synthetic Lubrication: Research, Development and Application of Synthetic Lubricants and Functional Fluids, 1988, 5, 55-72.	0.7	10
123	Instantaneous Axes of Rotation of the Lumbar Intervertebral Joints. Spine, 1988, 13, 1033-1041.	1.0	247
124	A graphical presentation of three-dimensional joint mobility. Clinical Biomechanics, 1987, 2, 14-21.	0.5	1
125	Measurement of human back movements in three dimensions by opto-electronic devices. Clinical Biomechanics, 1987, 2, 199-204.	0.5	30
126	Dynamic back movement measured using a three-dimensional television system. Journal of Biomechanics, 1987, 20, 943-949.	0.9	66



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127	Measurement of back and spinal mobility. <i>Clinical Biomechanics</i> , 1986, 1, 44-51.	0.5	63
128	Temperature dependence of the tensile properties of interspinous ligaments of sheep. <i>Journal of Biomedical Engineering</i> , 1986, 8, 62-66.	0.7	33
129	Vertebral Motion Measured Using Biplanar Radiography Before and After Harrington Rod Removal for Unstable Thoracolumbar Fractures of the Spine. <i>Spine</i> , 1986, 11, 452-455.	1.0	10
130	The effect of water content on the stiffness of seating foams. <i>Prosthetics and Orthotics International</i> , 1986, 10, 149-152.	0.5	2
131	Is There Instability in Spondylolisthesis?. <i>Spine</i> , 1985, 10, 175-177.	1.0	55
132	Spinal Movements in Ankylosing Spondylitis and the Effect of Treatment. <i>Spine</i> , 1985, 10, 472-474.	1.0	5
133	A Prospective Study of Lumbar Spinal Movements Before and After Discectomy Using Biplanar Radiography. <i>Spine</i> , 1985, 10, 455-460.	1.0	33
134	The Effect of Low-Back Pain on Lumbar Spinal Movements Measured by Three-Dimensional X-Ray Analysis. <i>Spine</i> , 1985, 10, 150-153.	1.0	145
135	Lumbar Intervertebral Disc Heights in Normal Subjects and Patients with Disc Herniation. <i>Spine</i> , 1985, 10, 452-454.	1.0	70
136	Posterior intertransverse fusion assessed clinically and with biplanar radiography. <i>International Orthopaedics</i> , 1985, 9, 11-17.	0.9	7
137	Stereo radiography of lumbar spine motion. <i>Acta Orthopaedica</i> , 1985, 56, 1-45.	1.4	180
138	Three-Dimensional X-ray Analysis of Normal Movement in the Lumbar Spine. <i>Spine</i> , 1984, 9, 294-297.	1.0	326
139	Axial Rotation and Lateral Bending in the Normal Lumbar Spine Measured by Three-Dimensional Radiography. <i>Spine</i> , 1984, 9, 582-587.	1.0	333
140	Movements of the lumbar spine measured by three-dimensional X-ray analysis. <i>Journal of Biomedical Engineering</i> , 1982, 4, 107-112.	0.7	53
141	Material properties of Velcro fastenings. <i>Prosthetics and Orthotics International</i> , 1982, 6, 93-96.	0.5	1
142	Assessment of bony union after interbody fusion of the lumbar spine using a biplanar radiographic technique. <i>Journal of Bone and Joint Surgery: British Volume</i> , 1982, 64-B, 228-232.	3.4	36