

Clayton J Adam

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

935
citations

430874

18
h-index

454955

30
g-index

45
all docs

45
docs citations

45
times ranked

1026
citing authors

#	ARTICLE	IF	CITATIONS
1	The use of physical biomodelling in complex spinal surgery. <i>European Spine Journal</i> , 2007, 16, 1507-1518.	2.2	102
2	Use of the iPhone for Cobb angle measurement in scoliosis. <i>European Spine Journal</i> , 2012, 21, 1062-1068.	2.2	74
3	Variability in Cobb Angle Measurements Using Reformatted Computerized Tomography Scans. <i>Spine</i> , 2005, 30, 1664-1669.	2.0	56
4	Stress analysis of interbody fusion – finite element modelling of intervertebral implant and vertebral body. <i>Clinical Biomechanics</i> , 2003, 18, 265-272.	1.2	48
5	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.	1.2	45
6	Evaluation of the iPhone with an acrylic sleeve versus the Scoliometer for rib hump measurement in scoliosis. <i>Scoliosis</i> , 2012, 7, 14.	0.4	42
7	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.	1.5	41
8	The Effect of Soft Tissue Properties on Spinal Flexibility in Scoliosis. <i>Spine</i> , 2009, 34, E76-E82.	2.0	38
9	Inter-lamellar shear resistance confers compressive stiffness in the intervertebral disc: An image-based modelling study on the bovine caudal disc. <i>Journal of Biomechanics</i> , 2015, 48, 4303-4308.	2.1	36
10	Recovery of Pulmonary Function Following Endoscopic Anterior Scoliosis Correction: Evaluation at 3, 6, 12, and 24 Months After Surgery. <i>Spine</i> , 2006, 31, 2469-2477.	2.0	32
11	Accuracy of 3D surface scanners for clinical torso and spinal deformity assessment. <i>Medical Engineering and Physics</i> , 2019, 63, 63-71.	1.7	31
12	Biological performance of a polycaprolactone-based scaffold plus recombinant human morphogenetic protein-2 (rhBMP-2) in an ovine thoracic interbody fusion model. <i>European Spine Journal</i> , 2014, 23, 650-657.	2.2	30
13	Automatic Measurement of Vertebral Rotation in Idiopathic Scoliosis. <i>Spine</i> , 2006, 31, E80-E83.	2.0	28
14	Computed Tomographic-Based Volumetric Reconstruction of the Pulmonary System in Scoliosis. <i>Journal of Pediatric Orthopaedics</i> , 2007, 27, 677-681.	1.2	26
15	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.	1.7	25
16	Gravity-Induced Torque and Intravertebral Rotation in Idiopathic Scoliosis. <i>Spine</i> , 2008, 33, E30-E37.	2.0	24
17	The Use of Fulcrum Bending Radiographs in Anterior Thoracic Scoliosis Correction. <i>Spine</i> , 2008, 33, 999-1005.	2.0	23
18	Secondary Curve Behavior in Lenke Type 1C Adolescent Idiopathic Scoliosis After Thoracoscopic Selective Anterior Thoracic Fusion. <i>Spine</i> , 2012, 37, 1965-1974.	2.0	21

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19	Evaluation of a Patient-Specific Finite-Element Model to Simulate Conservative Treatment in Adolescent Idiopathic Scoliosis. <i>Spine Deformity</i> , 2015, 3, 4-11.	1.5	19
20	Quantifying Progressive Anterior Overgrowth in the Thoracic Vertebrae of Adolescent Idiopathic Scoliosis Patients. <i>Spine</i> , 2016, 41, E382-E387.	2.0	18
21	A Prospective Assessment of SRS-24 Scores After Endoscopic Anterior Instrumentation for Scoliosis. <i>Spine</i> , 2006, 31, E817-E822.	2.0	17
22	Apophyseal Ossification of the Iliac Crest in Forensic Age Estimation: Computed Tomography Standards for Modern Australian Subadults. <i>Journal of Forensic Sciences</i> , 2017, 62, 292-307.	1.6	17
23	Endogenous musculoskeletal tissue engineering - a focused perspective. <i>Cell and Tissue Research</i> , 2012, 347, 489-499.	2.9	16
24	Towards determining soft tissue properties for modelling spine surgery: current progress and challenges. <i>Medical and Biological Engineering and Computing</i> , 2012, 50, 199-209.	2.8	15
25	The Relationship Between Deformity Correction and Clinical Outcomes After Thoracoscopic Scoliosis Surgery. <i>Spine</i> , 2010, 35, E1577-E1585.	2.0	14
26	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.	2.8	12
27	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.	1.5	10
28	Radiographic Outcomes Over Time After Endoscopic Anterior Scoliosis Correction. <i>Spine</i> , 2009, 34, 1176-1184.	2.0	9
29	Segmental torso masses in adolescent idiopathic scoliosis. <i>Clinical Biomechanics</i> , 2014, 29, 773-779.	1.2	9
30	Change in Lung Volume Following Thoracoscopic Anterior Spinal Fusion Surgery. <i>Spine</i> , 2017, 42, 909-916.	2.0	8
31	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.	1.5	8
32	Lateral bone density variations in the scoliotic spine. <i>Bone</i> , 2009, 45, 799-807.	2.9	7
33	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.	1.5	7
34	A Biomechanical Study of Top Screw Pullout in Anterior Scoliosis Correction Constructs. <i>Spine</i> , 2010, 35, E587-E595.	2.0	6
35	Evaluating the Change in Axial Vertebral Rotation Following Thoracoscopic Anterior Scoliosis Surgery Using Low-Dose Computed Tomography. <i>Spine Deformity</i> , 2017, 5, 172-180.	1.5	5
36	Partial Intervertebral Fusion Secures Successful Outcomes After Thoracoscopic Anterior Scoliosis Correction: A Low-Dose Computed Tomography Study. <i>Spine Deformity</i> , 2015, 3, 515-527.	1.5	3

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37	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.	1.2	3
38	Interactive image manipulation for surgical planning. <i>Medical Journal of Australia</i> , 2011, 194, S41.	1.7	2
39	A semiautomatic method to identify vertebral end plate lesions (Schmorl's nodes). <i>Spine Journal</i> , 2015, 15, 1665-1673.	1.3	2
40	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.	2.8	2
41	The effect of vertebral body stapling on spine biomechanics and structure using a bovine model. <i>Clinical Biomechanics</i> , 2020, 74, 73-78.	1.2	1
42	Secondary Curve Behavior in Lenke Class IC Adolescent Idiopathic Scoliosis Following Video-Assisted Thoracoscopic Spinal Fusion and Instrumentation. <i>Spine Journal</i> , 2010, 10, S116-S117.	1.3	0
43	The geometry of a circular arc does not accurately describe spinal curvature in scoliosis. <i>Journal of the National Medical Association</i> , 2005, 97, 1179-80.	0.8	0