

Geoffrey Askin

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

996
citations

430874

18
h-index

454955

30
g-index

55
all docs

55
docs citations

55
times ranked

920
citing authors

#	ARTICLE	IF	CITATIONS
1	Patient-Customised Theatre Mattress Supports for Spinal Surgery: A Pilot Study Presenting a Novel Engineering Virtual Design and Manufacturing Technique. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2022, , .	0.7	0
2	Deep Learning-Based Automatic Segmentation for Reconstructing Vertebral Anatomy of Healthy Adolescents and Patients With Adolescent Idiopathic Scoliosis (AIS) Using MRI Data. <i>IEEE Access</i> , 2021, 9, 86811-86823.	4.2	2
3	Morphological changes in the respiratory system: an MRI investigation of differences between the supine and left lateral decubitus positions. <i>Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization</i> , 2021, 9, 625-634.	1.9	1
4	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
5	Sequential MRI reveals vertebral body wedging significantly contributes to coronal plane deformity progression in adolescent idiopathic scoliosis during growth. <i>Spine Deformity</i> , 2020, 8, 901-910.	1.5	15
6	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
7	Paediatric scoliosis: Update on assessment and treatment. <i>Australian Journal of General Practice</i> , 2020, 49, 832-837.	0.8	8
8	A Preliminary Sensitivity Study of Vertebral Tethering Configurations Using a Patient-Specific Finite Element Model of Idiopathic Scoliosis. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2020, , 123-132.	0.5	0
9	Non-radicular low back pain: Assessment and evidence-based treatment. <i>Australian Journal of General Practice</i> , 2020, 49, 724-727.	0.8	2
10	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
11	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
12	A comparison of vertebral venous networks in adolescent idiopathic scoliosis patients and healthy controls. <i>Surgical and Radiologic Anatomy</i> , 2017, 39, 281-291.	1.2	4
13	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
14	Change in Lung Volume Following Thoracoscopic Anterior Spinal Fusion Surgery. <i>Spine</i> , 2017, 42, 909-916.	2.0	8
15	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
16	Surgical fusion of early onset severe scoliosis increases survival in Rett syndrome: a cohort study. <i>Developmental Medicine and Child Neurology</i> , 2016, 58, 632-638.	2.1	24
17	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
18	Use of 3D Printing in Complex Spinal Surgery: Historical Perspectives, Current Usage, and Future Directions. <i>Techniques in Orthopaedics</i> , 2016, 31, 172-180.	0.2	11

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19	The Natural History of Scoliosis in Females With Rett Syndrome. <i>Spine</i> , 2016, 41, 856-863.	2.0	50
20	Growing rod analysis for the fusionless correction of Early Onset Scoliosis (EOS). <i>Scoliosis</i> , 2015, 10, .	0.4	1
21	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
22	Gravity-induced coronal plane joint moments in adolescent idiopathic scoliosis. <i>Scoliosis</i> , 2015, 10, 35.	0.4	1
23	The effect of endplate preselection when measuring supine versus standing cobb angle change in idiopathic scoliosis. <i>Scoliosis</i> , 2015, 10, .	0.4	0
24	Longitudinal performance of polycaprolactone-based scaffold plus recombinant human morphogenetic protein-2 (rhBMP-2) in large preclinical animal model: 6- versus 12 months. <i>Scoliosis</i> , 2015, 10, .	0.4	0
25	Supine to standing Cobb angle change in idiopathic scoliosis: the effect of endplate pre-selection. <i>Scoliosis</i> , 2014, 9, 16.	0.4	18
26	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.	1.8	8
27	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
28	Establishment and Characterization of an Open Mini-Thoracotomy Surgical Approach to an Ovine Thoracic Spine Fusion Model. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 19-27.	2.1	10
29	Segmental torso masses in adolescent idiopathic scoliosis. <i>Clinical Biomechanics</i> , 2014, 29, 773-779.	1.2	9
30	An FE investigation simulating intra-operative corrective forces applied to correct scoliosis deformity. <i>Scoliosis</i> , 2013, 8, 9.	0.4	21
31	Postoperative pain relief using intermittent intrapleural analgesia following thoracoscopic anterior correction for progressive adolescent idiopathic scoliosis. <i>Scoliosis</i> , 2013, 8, 18.	0.4	9
32	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
33	CT and radiographic analysis of sagittal profile changes following thoracoscopic anterior scoliosis surgery. <i>Scoliosis</i> , 2012, 7, 15.	0.4	17
34	Use of the iPhone for Cobb angle measurement in scoliosis. <i>European Spine Journal</i> , 2012, 21, 1062-1068.	2.2	74
35	The Relationship Between Deformity Correction and Clinical Outcomes After Thoracoscopic Scoliosis Surgery. <i>Spine</i> , 2010, 35, E1577-E1585.	2.0	14
36	A Biomechanical Study of Top Screw Pullout in Anterior Scoliosis Correction Constructs. <i>Spine</i> , 2010, 35, E587-E595.	2.0	6

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37	Design and evaluation of an MRI compatible axial compression device for 3D assessment of spinal deformity and flexibility in AIS. <i>Studies in Health Technology and Informatics</i> , 2010, 158, 38-43.	0.3	9
38	<i>SHOX</i> gene is expressed in vertebral body growth plates in idiopathic and congenital scoliosis: Implications for the etiology of scoliosis in turner syndrome. <i>Journal of Orthopaedic Research</i> , 2009, 27, 807-813.	2.3	13
39	Lateral bone density variations in the scoliotic spine. <i>Bone</i> , 2009, 45, 799-807.	2.9	7
40	Radiographic Outcomes Over Time After Endoscopic Anterior Scoliosis Correction. <i>Spine</i> , 2009, 34, 1176-1184.	2.0	9
41	The vertebral body growth plate in scoliosis: a primary disturbance of growth?. <i>Scoliosis</i> , 2008, 3, 3.	0.4	21
42	Gravity-Induced Torque and Intravertebral Rotation in Idiopathic Scoliosis. <i>Spine</i> , 2008, 33, E30-E37.	2.0	24
43	The Use of Fulcrum Bending Radiographs in Anterior Thoracic Scoliosis Correction. <i>Spine</i> , 2008, 33, 999-1005.	2.0	23
44	Computed Tomographic-Based Volumetric Reconstruction of the Pulmonary System in Scoliosis. <i>Journal of Pediatric Orthopaedics</i> , 2007, 27, 677-681.	1.2	26
45	Perioperative Aspects of Endoscopic Anterior Scoliosis Surgery: The Learning Curve for a Consecutive Series of 100 Patients. <i>Journal of Spinal Disorders and Techniques</i> , 2007, 20, 317-323.	1.9	27
46	The use of physical biomodelling in complex spinal surgery. <i>European Spine Journal</i> , 2007, 16, 1507-1518.	2.2	102
47	A Prospective Assessment of SRS-24 Scores After Endoscopic Anterior Instrumentation for Scoliosis. <i>Spine</i> , 2006, 31, E817-E822.	2.0	17
48	Automatic Measurement of Vertebral Rotation in Idiopathic Scoliosis. <i>Spine</i> , 2006, 31, E80-E83.	2.0	28
49	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
50	Variability in Cobb Angle Measurements Using Reformatted Computerized Tomography Scans. <i>Spine</i> , 2005, 30, 1664-1669.	2.0	56
51	Patient-Specific Finite Element Analysis of Single Rod Adolescent Idiopathic Scoliosis Surgery(<i>Spine</i>) Tj ETQq1 1 0.784314 rgBT /Overl Technology in Biomechanics, 2004, 2004.1, 201-202.	0.0	1
52	Spinal Biomodeling. <i>Spine</i> , 1999, 24, 1247-1251.	2.0	71
53	The Outcome of Scoliosis Surgery in the Severely Physically Handicapped Child. <i>Spine</i> , 1997, 22, 44-50.	2.0	59
54	Pin-Site Complications of the Halo Thoracic Brace With Routine Pin Re-Tightening. <i>Spine</i> , 1997, 22, 2514-2516.	2.0	30