

Hubert Labelle

List of Publications by Year in descending order

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256
papers

10,719
citations

29994

54
h-index

45213

90
g-index

262
all docs

262
docs citations

262
times ranked

4721
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of the Sagittal Balance of the Spine and Pelvis Using Shape and Orientation Parameters. <i>Journal of Spinal Disorders and Techniques</i> , 2005, 18, 40-47.	1.8	491
2	Comparative Results Between Conventional and Computer-Assisted Pedicle Screw Installation in the Thoracic, Lumbar, and Sacral Spine. <i>Spine</i> , 2000, 25, 606-614.	1.0	381
3	Sagittal Alignment of the Spine and Pelvis During Growth. <i>Spine</i> , 2004, 29, 1642-1647.	1.0	350
4	Spondylolisthesis, Pelvic Incidence, and Spinopelvic Balance. <i>Spine</i> , 2004, 29, 2049-2054.	1.0	345
5	Sagittal spinopelvic balance in normal children and adolescents. <i>European Spine Journal</i> , 2007, 16, 227-234.	1.0	300
6	The Importance of Spino-Pelvic Balance in L5-S1 Developmental Spondylolisthesis. <i>Spine</i> , 2005, 30, S27-S34.	1.0	230
7	Relations Between Standing Stability and Body Posture Parameters in Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2002, 27, 1911-1917.	1.0	219
8	Spino-pelvic sagittal balance of spondylolisthesis: a review and classification. <i>European Spine Journal</i> , 2011, 20, 641-646.	1.0	218
9	Sagittal Plane Analysis of the Spine and Pelvis in Adolescent Idiopathic Scoliosis According to the Coronal Curve Type. <i>Spine</i> , 2003, 28, 1404-1409.	1.0	192
10	Sagittal Alignment of the Spine and Pelvis in the Presence of L5-S1 Isthmic Lysis and Low-Grade Spondylolisthesis. <i>Spine</i> , 2006, 31, 2484-2490.	1.0	187
11	Classification of High-Grade Spondylolistheses Based on Pelvic Version and Spine Balance. <i>Spine</i> , 2007, 32, 2208-2213.	1.0	177
12	3D/2D registration and segmentation of scoliotic vertebrae using statistical models. <i>Computerized Medical Imaging and Graphics</i> , 2003, 27, 321-337.	3.5	147
13	Melatonin Signaling Dysfunction in Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2004, 29, 1772-1781.	1.0	146
14	Spinal Cord Injury in the Pediatric Population: A Systematic Review of the Literature. <i>Journal of Neurotrauma</i> , 2011, 28, 1515-1524.	1.7	142
15	Computer-Assisted Pedicle Screw Fixation- A Feasibility Study. <i>Spine</i> , 1995, 20, 1208-1212.	1.0	140
16	Spino-pelvic alignment after surgical correction for developmental spondylolisthesis. <i>European Spine Journal</i> , 2008, 17, 1170-1176.	1.0	129
17	Pre- and post-operative sagittal balance in idiopathic scoliosis: a comparison over the ages of two cohorts of 132 adolescents and 52 adults. <i>European Spine Journal</i> , 2013, 22, 203-215.	1.0	121
18	Pediatric sagittal alignment. <i>European Spine Journal</i> , 2011, 20, 586-590.	1.0	111

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19	Morphometric Analysis of Anatomic Scoliotic Specimens. <i>Spine</i> , 2002, 27, 2305-2311.	1.0	97
20	A Hierarchical Statistical Modeling Approach for the Unsupervised 3-D Biplanar Reconstruction of the Scoliotic Spine. <i>IEEE Transactions on Biomedical Engineering</i> , 2005, 52, 2041-2057.	2.5	97
21	Thoracic Pedicle Morphometry in Vertebrae from Scoliotic Spines. <i>Spine</i> , 2004, 29, 239-248.	1.0	96
22	Three-Dimensional Classification of Thoracic Scoliotic Curves. <i>Spine</i> , 2009, 34, 91-99.	1.0	96
23	Clinical methods for quantifying body segment posture: a literature review. <i>Disability and Rehabilitation</i> , 2011, 33, 367-383.	0.9	96
24	Seeing the Spine in 3D. <i>Journal of Pediatric Orthopaedics</i> , 2011, 31, S37-S45.	0.6	96
25	Three-Dimensional Spinal Morphology Can Differentiate Between Progressive and Nonprogressive Patients With Adolescent Idiopathic Scoliosis at the Initial Presentation. <i>Spine</i> , 2014, 39, E601-E606.	1.0	91
26	Three-dimensional Effect of the Boston Brace on the Thoracic Spine and Rib Cage. <i>Spine</i> , 1996, 21, 59-64.	1.0	89
27	Geometric Torsion in Idiopathic Scoliosis. <i>Spine</i> , 2001, 26, 2235-2243.	1.0	86
28	A proposal for a surgical classification of pediatric lumbosacral spondylolisthesis based on current literature. <i>European Spine Journal</i> , 2006, 15, 1425-1435.	1.0	86
29	Postural Model of Sagittal Spino-Pelvic Alignment and Its Relevance for Lumbosacral Developmental Spondylolisthesis. <i>Spine</i> , 2008, 33, 2316-2325.	1.0	85
30	Observer Variation in Assessing Spinal Curvature and Skeletal Development in Adolescent Idiopathic Scoliosis. <i>Spine</i> , 1988, 13, 1371-1377.	1.0	83
31	Variability of spinal instrumentation configurations in adolescent idiopathic scoliosis. <i>European Spine Journal</i> , 2007, 16, 57-64.	1.0	82
32	Global sagittal alignment and health-related quality of life in lumbosacral spondylolisthesis. <i>European Spine Journal</i> , 2013, 22, 849-856.	1.0	82
33	Reliability of trunk shape measurements based on 3-D surface reconstructions. <i>European Spine Journal</i> , 2007, 16, 1882-1891.	1.0	80
34	Screening for adolescent idiopathic scoliosis: an information statement by the scoliosis research society international task force. <i>Scoliosis</i> , 2013, 8, 17.	0.4	76
35	Optimized vertical stereo base radiographic setup for the clinical three-dimensional reconstruction of the human spine. <i>Journal of Biomechanics</i> , 1994, 27, 1023-1035.	0.9	72
36	A versatile 3D reconstruction system of the spine and pelvis for clinical assessment of spinal deformities. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 591-602.	1.6	71

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37	Geometric Variability of the Scoliotic Spine Using Statistics on Articulated Shape Models. IEEE Transactions on Medical Imaging, 2008, 27, 557-568.	5.4	71
38	Spine Segmentation in Medical Images Using Manifold Embeddings and Higher-Order MRFs. IEEE Transactions on Medical Imaging, 2013, 32, 1227-1238.	5.4	70
39	A Three-Dimensional Radiographic Comparison of Cotrel-Dubousset and Colorado Instrumentations for the Correction of Idiopathic Scoliosis. Spine, 2000, 25, 205.	1.0	69
40	Intra- and inter-observer reliability of determining radiographic sagittal parameters of the spine and pelvis using a manual and a computer-assisted methods. European Spine Journal, 2008, 17, 1373-1379.	1.0	68
41	Correlation Between Immediate In-Brace Correction and Biomechanical Effectiveness of Brace Treatment in Adolescent Idiopathic Scoliosis. Spine, 2010, 35, 1706-1713.	1.0	67
42	A three-dimensional retrospective analysis of the evolution of spinal instrumentation for the correction of adolescent idiopathic scoliosis. European Spine Journal, 2009, 18, 23-37.	1.0	65
43	Comparison of the biomechanical 3D efficiency of different brace designs for the treatment of scoliosis using a finite element model. European Spine Journal, 2010, 19, 1169-1178.	1.0	65
44	Diurnal Variation of Cobb Angle Measurement in Adolescent Idiopathic Scoliosis. Spine, 1993, 18, 1581-1583.	1.0	64
45	A Modified Risser Grading System Predicts the Curve Acceleration Phase of Female Adolescent Idiopathic Scoliosis. Journal of Bone and Joint Surgery - Series A, 2010, 92, 1073-1081.	1.4	63
46	Comparison Between Preoperative and Postoperative Three-dimensional Reconstructions of Idiopathic Scoliosis With the Cotrel-dubousset Procedure. Spine, 1995, 20, 2487-2492.	1.0	61
47	Three-Dimensional Classification of Spinal Deformities Using Fuzzy Clustering. Spine, 2006, 31, 923-930.	1.0	60
48	Scoliosis Correction Objectives in Adolescent Idiopathic Scoliosis. Journal of Pediatric Orthopaedics, 2007, 27, 775-781.	0.6	60
49	Reliability of a quantitative clinical posture assessment tool among persons with idiopathic scoliosis. Physiotherapy, 2012, 98, 64-75.	0.2	60
50	Electromyography of scoliotic patients treated with a brace. Journal of Orthopaedic Research, 2003, 21, 931-936.	1.2	59
51	Validity of a Quantitative Clinical Measurement Tool of Trunk Posture in Idiopathic Scoliosis. Spine, 2010, 35, E988-E994.	1.0	59
52	Three-Dimensional Analysis of Thoracic Apical Sagittal Alignment in Adolescent Idiopathic Scoliosis. Spine, 2009, 34, 792-797.	1.0	58
53	Intraoperative Comparison of Two Instrumentation Techniques for the Correction of Adolescent Idiopathic Scoliosis. Spine, 1999, 24, 2011.	1.0	56
54	Personalized X-Ray 3-D Reconstruction of the Scoliotic Spine From Hybrid Statistical and Image-Based Models. IEEE Transactions on Medical Imaging, 2009, 28, 1422-1435.	5.4	56

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55	Indices of torso asymmetry related to spinal deformity in scoliosis. <i>Clinical Biomechanics</i> , 2002, 17, 559-568.	0.5	54
56	Biomechanical Evaluation of the Boston Brace System for the Treatment of Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2004, 29, 26-32.	1.0	54
57	Reliability and Validity of Adapted French Canadian Version of Scoliosis Research Society Outcomes Questionnaire (SRS-22) in Quebec. <i>Spine</i> , 2009, 34, 623-628.	1.0	54
58	Boston Brace Correction in Idiopathic Scoliosis: A Biomechanical Study. <i>Spine</i> , 2003, 28, 1672-1677.	1.0	53
59	Classification of three-dimensional thoracic deformities in adolescent idiopathic scoliosis from a multivariate analysis. <i>European Spine Journal</i> , 2012, 21, 40-49.	1.0	53
60	Relation between the sagittal pelvic and lumbar spine geometries following surgical correction of adolescent idiopathic scoliosis. <i>European Spine Journal</i> , 2007, 16, 531-536.	1.0	52
61	Fast 3D reconstruction of the spine from biplanar radiographs using a deformable articulated model. <i>Medical Engineering and Physics</i> , 2011, 33, 924-933.	0.8	51
62	Estimation of Spinal Deformity in Scoliosis From Torso Surface Cross Sections. <i>Spine</i> , 2001, 26, 1583-1591.	1.0	50
63	Assessment of Spinal Flexibility in Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2009, 34, 591-597.	1.0	50
64	Automatic inference of articulated spine models in CT images using high-order Markov Random Fields. <i>Medical Image Analysis</i> , 2011, 15, 426-437.	7.0	50
65	New brace design combining CAD/CAM and biomechanical simulation for the treatment of adolescent idiopathic scoliosis. <i>Clinical Biomechanics</i> , 2012, 27, 999-1005.	0.5	50
66	Peroperative Three-Dimensional Correction of Idiopathic Scoliosis With the Cotrel-Dubousset Procedure. <i>Spine</i> , 1995, 20, 1406-1409.	1.0	49
67	Rib Cage-Spine Coupling Patterns Involved in Brace Treatment of Adolescent Idiopathic Scoliosis. <i>Spine</i> , 1997, 22, 629-635.	1.0	49
68	Estrogen cross-talk with the melatonin signaling pathway in human osteoblasts derived from adolescent idiopathic scoliosis patients. <i>Journal of Pineal Research</i> , 2008, 45, 383-393.	3.4	49
69	Effectiveness of braces designed using computer-aided design and manufacturing (CAD/CAM) and finite element simulation compared to CAD/CAM only for the conservative treatment of adolescent idiopathic scoliosis: a prospective randomized controlled trial. <i>European Spine Journal</i> , 2016, 25, 3056-3064.	1.0	49
70	Three-dimensional morphology study of surgical adolescent idiopathic scoliosis patient from encoded geometric models. <i>European Spine Journal</i> , 2016, 25, 3104-3113.	1.0	48
71	Variability of Strap Tension in Brace Treatment for Adolescent Idiopathic Scoliosis. <i>Spine</i> , 1999, 24, 349-354.	1.0	46
72	Pre-, Intra-, and Postoperative Three-Dimensional Evaluation of Adolescent Idiopathic Scoliosis. <i>Journal of Spinal Disorders</i> , 2000, 13, 93-101.	1.1	46

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73	Vertebral Wedging Characteristic Changes in Scoliotic Spines. <i>Spine</i> , 2004, 29, E455-E462.	1.0	46
74	Prevalence and Management of Back Pain in Adolescent Idiopathic Scoliosis Patients: A Retrospective Study. <i>Pain Research and Management</i> , 2015, 20, 153-157.	0.7	46
75	Back Pain Prevalence Is Associated With Curve-type and Severity in Adolescents With Idiopathic Scoliosis. <i>Spine</i> , 2017, 42, E914-E919.	1.0	46
76	Virtual prototyping of a brace design for the correction of scoliotic deformities. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 467-473.	1.6	45
77	A new method to include the gravitational forces in a finite element model of the scoliotic spine. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 967-977.	1.6	45
78	Biomechanical simulations of scoliotic spine correction due to prone position and anaesthesia prior to surgical instrumentation. <i>Clinical Biomechanics</i> , 2005, 20, 923-931.	0.5	42
79	Articulated Spine Models for 3-D Reconstruction From Partial Radiographic Data. <i>IEEE Transactions on Biomedical Engineering</i> , 2008, 55, 2565-2574.	2.5	41
80	Reliability of the Spinal Deformity Study Group Classification of Lumbosacral Spondylolisthesis. <i>Spine</i> , 2012, 37, E95-E102.	1.0	41
81	Three-Dimensional Spinopelvic Relative Alignment in Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2014, 39, 564-570.	1.0	41
82	Braces Optimized With Computer-Assisted Design and Simulations Are Lighter, More Comfortable, and More Efficient Than Plaster-Cast Braces for the Treatment of Adolescent Idiopathic Scoliosis. <i>Spine Deformity</i> , 2014, 2, 276-284.	0.7	41
83	Idiopathic Scoliosis in Three Dimensions. <i>Spine</i> , 2001, 26, 2719-2726.	1.0	39
84	Reliability and Accuracy Analysis of a New Semiautomatic Radiographic Measurement Software in Adult Scoliosis. <i>Spine</i> , 2011, 36, E780-E790.	1.0	39
85	Principal component analysis of the power developed in the flexion/extension muscles of the hip in able-bodied gait. <i>Medical Engineering and Physics</i> , 2000, 22, 703-710.	0.8	38
86	Reliability and development of a new classification of lumbosacral spondylolisthesis. <i>Scoliosis</i> , 2008, 3, 19.	0.4	38
87	Prediction of anterior scoliotic spinal curve from trunk surface using support vector regression. <i>Engineering Applications of Artificial Intelligence</i> , 2005, 18, 973-983.	4.3	37
88	Implant Distribution in Surgically Instrumented Lenke 1 Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2015, 40, 462-468.	1.0	37
89	Preliminary Evaluation of a Computer-Assisted Tool for the Design and Adjustment of Braces in Idiopathic Scoliosis. <i>Spine</i> , 2007, 32, 835-843.	1.0	36
90	A Biomechanical Study of the Charleston Brace for the Treatment of Scoliosis. <i>Spine</i> , 2010, 35, E940-E947.	1.0	36

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91	Patient Characteristics at the Initial Visit to a Scoliosis Clinic. <i>Spine</i> , 2007, 32, 1349-1354.	1.0	35
92	The Central Hip Vertical Axis. <i>Spine</i> , 2010, 35, E530-E534.	1.0	35
93	Biomechanical comparison of alternative densities of pedicle screws for the treatment of adolescent idiopathic scoliosis. <i>European Spine Journal</i> , 2012, 21, 1082-1090.	1.0	35
94	Influence of Sacral Morphology in Developmental Spondylolisthesis. <i>Spine</i> , 2008, 33, 2185-2191.	1.0	34
95	3D correction of AIS in braces designed using CAD/CAM and FEM: a randomized controlled trial. <i>Scoliosis and Spinal Disorders</i> , 2017, 12, 24.	2.3	34
96	Reconstruction of Laser-scanned 3D Torso Topography and Stereoradiographical Spine and Rib-cage Geometry in Scoliosis. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2001, 4, 59-75.	0.9	33
97	Spine/SRS Spondylolisthesis Summary Statement. <i>Spine</i> , 2005, 30, S3.	1.0	33
98	Relation Between Adolescent Idiopathic Scoliosis and Morphologic Somatotypes. <i>Spine</i> , 1997, 22, 2532-2536.	1.0	32
99	Biomechanical Analysis of 4 Types of Pedicle Screws for Scoliotic Spine Instrumentation. <i>Spine</i> , 2012, 37, E823-E835.	1.0	32
100	Prevalence of low back pain in adolescents with idiopathic scoliosis: a systematic review. <i>Chiropractic & Manual Therapies</i> , 2017, 25, 10.	0.6	32
101	Genetic Algorithmâ€“Neural Network Estimation of Cobb Angle from Torso Asymmetry in Scoliosis. <i>Journal of Biomechanical Engineering</i> , 2002, 124, 496-503.	0.6	31
102	Comparison between constrained and non-constrained Cobb techniques for the assessment of thoracic kyphosis and lumbar lordosis. <i>European Spine Journal</i> , 2007, 16, 1325-1331.	1.0	31
103	Biomechanical Comparison of Force Levels in Spinal Instrumentation Using Monoaxial versus Multi Degree of Freedom Postloading Pedicle Screws. <i>Spine</i> , 2011, 36, E95-E104.	1.0	31
104	Biomechanical modeling of brace treatment of scoliosis: effects of gravitational loads. <i>Medical and Biological Engineering and Computing</i> , 2011, 49, 743-753.	1.6	31
105	Continuous curve registration as an intertrial gait variability reduction technique. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2003, 11, 24-30.	2.7	30
106	Three-Dimensional (3-D) Reconstruction of the Spine From a Single X-Ray Image and Prior Vertebra Models. <i>IEEE Transactions on Biomedical Engineering</i> , 2004, 51, 1628-1639.	2.5	30
107	Quality of life of patients with high-grade spondylolisthesis: minimum 2-year follow-up after surgical and nonsurgical treatments. <i>Spine Journal</i> , 2013, 13, 770-774.	0.6	30
108	3D rod shape changes in adolescent idiopathic scoliosis instrumentation: how much does it impact correction?. <i>European Spine Journal</i> , 2017, 26, 1676-1683.	1.0	30

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109	Three-Dimensional Reconstruction of the Scoliotic Spine and Pelvis From Uncalibrated Biplanar x-Ray Images. <i>Journal of Spinal Disorders and Techniques</i> , 2007, 20, 160-167.	1.8	29
110	Validation and Clinical Relevance of a French-Canadian Version of the Spinal Appearance Questionnaire in Adolescent Patients. <i>Spine</i> , 2011, 36, 746-751.	1.0	29
111	Anaesthetic management of an adolescent for scoliosis surgery with a Fontan circulation. <i>Paediatric Anaesthesia</i> , 2001, 11, 607-610.	0.6	28
112	Evaluation of a transpedicular drill guide for pedicle screw placement in the thoracic spine. <i>European Spine Journal</i> , 2003, 12, 542-547.	1.0	28
113	Automatic Detection of Scoliotic Curves in Posteroanterior Radiographs. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 1143-1151.	2.5	28
114	Biomechanical evaluation of predictive parameters of progression in adolescent isthmic spondylolisthesis: a computer modeling and simulation study. <i>Scoliosis</i> , 2012, 7, 2.	0.4	28
115	Computer simulation for the optimization of instrumentation strategies in adolescent idiopathic scoliosis. <i>Medical and Biological Engineering and Computing</i> , 2009, 47, 1143-1154.	1.6	27
116	Cell-Based Screening Test for Idiopathic Scoliosis Using Cellular Dielectric Spectroscopy. <i>Spine</i> , 2010, 35, E601-E608.	1.0	27
117	Clinical Significance of Lumbosacral Kyphosis in Adolescent Spondylolisthesis. <i>Spine</i> , 2012, 37, 304-308.	1.0	27
118	MRI signal distribution within the intervertebral disc as a biomarker of adolescent idiopathic scoliosis and spondylolisthesis. <i>BMC Musculoskeletal Disorders</i> , 2012, 13, 239.	0.8	27
119	Prediction of spinal curve progression in Adolescent Idiopathic Scoliosis using Random Forest regression. <i>Computers in Biology and Medicine</i> , 2018, 103, 34-43.	3.9	27
120	Assessment of lumbosacral kyphosis in spondylolisthesis: a computer-assisted reliability study of six measurement techniques. <i>European Spine Journal</i> , 2009, 18, 212-217.	1.0	25
121	Three-dimensional Subclassification of Lenke Type 1 Scoliotic Curves. <i>Journal of Spinal Disorders and Techniques</i> , 2009, 22, 135-143.	1.8	25
122	How does implant distribution affect 3D correction and bone-screw forces in thoracic adolescent idiopathic scoliosis spinal instrumentation?. <i>Clinical Biomechanics</i> , 2016, 39, 25-31.	0.5	25
123	Computerized Assessment of Sagittal Curvatures of the Spine. <i>Journal of Spinal Disorders and Techniques</i> , 2006, 19, 507-512.	1.8	24
124	The pendulum swings back to scoliosis screening: screening policies for early detection and treatment of idiopathic scoliosis - current concepts and recommendations. <i>Scoliosis</i> , 2013, 8, 16.	0.4	23
125	A Predictive Model of Progression for Adolescent Idiopathic Scoliosis Based on 3D Spine Parameters at First Visit. <i>Spine</i> , 2020, 45, 605-611.	1.0	23
126	Three-dimensional Spine Parameters Can Differentiate Between Progressive and Nonprogressive Patients With AIS at the Initial Visit. <i>Journal of Pediatric Orthopaedics</i> , 2013, 33, 618-623.	0.6	22

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127	Normal sagittal parameters of global spinal balance in children and adolescents: a prospective study of 646 asymptomatic subjects. <i>European Spine Journal</i> , 2016, 25, 3650-3657.	1.0	22
128	Spinal shape changes resulting from scoliotic spine surgical instrumentation expressed as intervertebral rotations and centers of rotation. <i>Journal of Biomechanics</i> , 2004, 37, 173-180.	0.9	21
129	Towards a new 3D classification for adolescent idiopathic scoliosis. <i>Spine Deformity</i> , 2020, 8, 387-396.	0.7	21
130	Preoperative and early postoperative three-dimensional changes of the rib cage after posterior instrumentation in adolescent idiopathic scoliosis. <i>European Spine Journal</i> , 2001, 10, 101-106.	1.0	20
131	The Effect of Intraoperative Traction During Posterior Spinal Instrumentation and Fusion for Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2004, 29, 1549-1554.	1.0	20
132	Biomechanical Analysis of Corrective Forces in Spinal Instrumentation for Scoliosis Treatment. <i>Spine</i> , 2012, 37, E1479-E1487.	1.0	20
133	3D registration of MR and X-ray spine images using an articulated model. <i>Computerized Medical Imaging and Graphics</i> , 2012, 36, 410-418.	3.5	20
134	Restoration of normal pelvic balance from surgical reduction in high-grade spondylolisthesis. <i>European Spine Journal</i> , 2019, 28, 2087-2094.	1.0	20
135	Characterizing Pelvis Dynamics in Adolescent With Idiopathic Scoliosis. <i>Spine</i> , 2010, 35, E820-E826.	1.0	19
136	Redefining the Technique for the Radiologic Measurement of Slip in Spondylolisthesis. <i>Spine</i> , 2010, 35, 1401-1405.	1.0	19
137	The effectiveness of the SpineCor brace for the conservative treatment of adolescent idiopathic scoliosis. Comparison with the Boston brace. <i>Spine Journal</i> , 2016, 16, 626-631.	0.6	19
138	Braces Designed Using CAD/CAM Combined or Not With Finite Element Modeling Lead to Effective Treatment and Quality of Life After 2 Years. <i>Spine</i> , 2021, 46, 9-16.	1.0	19
139	Biomechanical modeling and analysis of a direct incremental segmental translation system for the instrumentation of scoliotic deformities. <i>Clinical Biomechanics</i> , 2011, 26, 548-555.	0.5	18
140	Biomechanical loading of the sacrum in adolescent idiopathic scoliosis. <i>Clinical Biomechanics</i> , 2014, 29, 296-303.	0.5	18
141	Evidence of Three-Dimensional Variability in Scoliotic Curves. <i>Clinical Orthopaedics and Related Research</i> , 2003, 412, 139-148.	0.7	17
142	Effects of alternative instrumentation strategies in adolescent idiopathic scoliosis: A biomechanical analysis. <i>Journal of Orthopaedic Research</i> , 2009, 27, 104-113.	1.2	17
143	Interobserver and Intraobserver Variability in the Identification of the Lenke Classification Lumbar Modifier in Adolescent Idiopathic Scoliosis. <i>Journal of Spinal Disorders and Techniques</i> , 2009, 22, 448-455.	1.8	17
144	A Novel Method for the 3-D Reconstruction of Scoliotic Ribs From Frontal and Lateral Radiographs. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 1135-1146.	2.5	17

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145	Artificial neural networks assessing adolescent idiopathic scoliosis: comparison with Lenke classification. <i>Spine Journal</i> , 2013, 13, 1527-1533.	0.6	17
146	Biomechanical Analysis of Vertebral Derotation Techniques for the Surgical Correction of Thoracic Scoliosis. <i>Spine</i> , 2013, 38, E73-E83.	1.0	17
147	Biomechanical Assessment of Providence Nighttime Brace for the Treatment of Adolescent Idiopathic Scoliosis. <i>Spine Deformity</i> , 2016, 4, 253-260.	0.7	17
148	Trunk imbalance in adolescent idiopathic scoliosis. <i>Spine Journal</i> , 2016, 16, 687-693.	0.6	17
149	Biomechanics of high-grade spondylolisthesis with and without reduction. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 619-628.	1.6	17
150	Biomechanical effect of pedicle screw distribution in AIS instrumentation using a segmental translation technique: computer modeling and simulation. <i>Scoliosis and Spinal Disorders</i> , 2017, 12, 13.	2.3	17
151	Non invasive classification system of scoliosis curve types using least-squares support vector machines. <i>Artificial Intelligence in Medicine</i> , 2012, 56, 99-107.	3.8	16
152	Inter-rater reliability of the evaluation of muscular chains associated with posture alterations in scoliosis. <i>BMC Musculoskeletal Disorders</i> , 2012, 13, 80.	0.8	16
153	The effectiveness of scoliosis screening programs: methods for systematic review and expert panel recommendations formulation. <i>Scoliosis</i> , 2013, 8, 12.	0.4	16
154	Patient-specific finite element model of the spine and spinal cord to assess the neurological impact of scoliosis correction: preliminary application on two cases with and without intraoperative neurological complications. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2016, 19, 901-910.	0.9	16
155	What Are the Indications for Spinal Fusion Surgery in Scheuermann Kyphosis?. <i>Journal of Pediatric Orthopaedics</i> , 2019, 39, 217-221.	0.6	16
156	Preoperative assessment and evaluation of instrumentation strategies for the treatment of adolescent idiopathic scoliosis: computer simulation and optimization. <i>Scoliosis</i> , 2012, 7, 21.	0.4	15
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