

Hubert Labelle

List of Publications by Year in descending order

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256
papers

10,719
citations

30070

54
h-index

45317

90
g-index

262
all docs

262
docs citations

262
times ranked

4721
citing authors

#	ARTICLE	IF	CITATIONS
1	A Dangerous Curve: Impact of the COVID-19 Pandemic on Brace Treatment in Adolescent Idiopathic Scoliosis. <i>Global Spine Journal</i> , 2024, 14, 513-518.	2.3	2
2	The classification of scoliosis braces developed by SOSORT with SRS, ISPO, and POSNA and approved by ESPRM. <i>European Spine Journal</i> , 2022, 31, 980-989.	2.2	15
3	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.	2.0	19
4	Patient outcomes in idiopathic scoliosis are associated with biological endophenotypes: 2020 SOSORT award winner. <i>European Spine Journal</i> , 2021, 30, 1125-1131.	2.2	1
5	Automatic bone maturity grading from EOS radiographs in Adolescent Idiopathic Scoliosis. <i>Computers in Biology and Medicine</i> , 2021, 136, 104681.	7.0	1
6	A Predictive Model of Progression for Adolescent Idiopathic Scoliosis Based on 3D Spine Parameters at First Visit. <i>Spine</i> , 2020, 45, 605-611.	2.0	23
7	3D reconstruction of the human trunk for designing personalized braces : Precision study. , 2020, 2020, 5806-5809.		0
8	A freehand ultrasound framework for spine assessment in 3D: a preliminary study. , 2020, 2020, 2096-2100.		2
9	Convolutional Neural Networks for Automatic Risser Stage Assessment. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e180063.	5.8	5
10	Towards a new 3D classification for adolescent idiopathic scoliosis. <i>Spine Deformity</i> , 2020, 8, 387-396.	1.5	21
11	A Differential Hypofunctionality of $G\ddot{I}\pm i$ Proteins Occurs in Adolescent Idiopathic Scoliosis and Correlates with the Risk of Disease Progression. <i>Scientific Reports</i> , 2019, 9, 10074.	3.3	4
12	Restoration of normal pelvic balance from surgical reduction in high-grade spondylolisthesis. <i>European Spine Journal</i> , 2019, 28, 2087-2094.	2.2	20
13	Criteria for surgical reduction in high-grade lumbosacral spondylolisthesis based on quality of life measures. <i>European Spine Journal</i> , 2019, 28, 2060-2069.	2.2	13
14	Expectations for Postoperative Improvement in Health-Related Quality of Life in Young Patients With Lumbosacral Spondylolisthesis. <i>Spine</i> , 2019, 44, E181-E186.	2.0	8
15	Long-term follow-up after surgical treatment of adolescent idiopathic scoliosis using high-density pedicle screw constructs: Is 5-year routine visit required?. <i>European Spine Journal</i> , 2019, 28, 1296-1300.	2.2	11
16	Association between lay perception of morbidity and appropriateness of specialized health care use in adolescent idiopathic scoliosis. <i>Journal of Orthopaedic Research</i> , 2019, 37, 727-736.	2.3	2
17	Biomechanical Comparison of the Load-Sharing Capacity of High and Low Implant Density Constructs With Three Types of Pedicle Screws for the Instrumentation of Adolescent Idiopathic Scoliosis. <i>Spine Deformity</i> , 2019, 7, 2-10.	1.5	14
18	The impact of surgical reduction of high-grade lumbosacral spondylolisthesis on proximal femoral angle and quality of life. <i>Spine Journal</i> , 2019, 19, 670-676.	1.3	8

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19	What Are the Indications for Spinal Fusion Surgery in Scheuermann Kyphosis?. Journal of Pediatric Orthopaedics, 2019, 39, 217-221.	1.2	16
20	L5 incidence: an important parameter for spinopelvic balance evaluation in high-grade spondylolisthesis. Spine Journal, 2018, 18, 1417-1423.	1.3	9
21	The importance of proximal femoral angle on sagittal balance and quality of life in children and adolescents with high-grade lumbosacral spondylolisthesis. European Spine Journal, 2018, 27, 2038-2043.	2.2	9
22	Biomechanical Simulation of Stresses and Strains Exerted on the Spinal Cord and Nerves During Scoliosis Correction Maneuvers. Spine Deformity, 2018, 6, 12-19.	1.5	11
23	Prediction of spinal curve progression in Adolescent Idiopathic Scoliosis using Random Forest regression. Computers in Biology and Medicine, 2018, 103, 34-43.	7.0	27
24	Significant variability in surgeons'™ preferred correction maneuvers and instrumentation strategies when planning adolescent idiopathic scoliosis surgery. Scoliosis and Spinal Disorders, 2018, 13, 21.	2.3	9
25	Spectral Shape Analysis of Human Torsos: Application to the Evaluation of Scoliosis Surgery Outcome. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 1552-1560.	6.3	2
26	Biomechanical analysis of spino-pelvic postural configurations in spondylolysis subjected to various sport-related dynamic loading conditions. European Spine Journal, 2018, 27, 2044-2052.	2.2	12
27	Dynamic ensemble selection of learner-descriptor classifiers to assess curve types in adolescent idiopathic scoliosis. Medical and Biological Engineering and Computing, 2018, 56, 2221-2231.	2.8	6
28	3D rod shape changes in adolescent idiopathic scoliosis instrumentation: how much does it impact correction?. European Spine Journal, 2017, 26, 1676-1683.	2.2	30
29	Geometric Torsion in Adolescent Idiopathic Scoliosis. Spine, 2017, 42, E532-E538.	2.0	4
30	Assessment of Breast Asymmetry in Adolescent Idiopathic Scoliosis Using an Automated 3D Body Surface Measurement Technique. Spine Deformity, 2017, 5, 152-158.	1.5	10
31	Back Pain Prevalence Is Associated With Curve-type and Severity in Adolescents With Idiopathic Scoliosis. Spine, 2017, 42, E914-E919.	2.0	46
32	Are There 3D Changes in Spine and Rod Shape in the 2 Years After Adolescent Idiopathic Scoliosis Instrumentation?. Spine, 2017, 42, 1158-1164.	2.0	6
33	Measurement Properties of the Scoliosis Research Society Outcomes Questionnaire in Adolescent Patients With Spondylolisthesis. Spine, 2017, 42, 1316-1321.	2.0	14
34	Spinal Manipulative Therapy for Adolescent Idiopathic Scoliosis: A Systematic Review. Journal of Manipulative and Physiological Therapeutics, 2017, 40, 452-458.	0.9	13
35	Prevalence of low back pain in adolescents with idiopathic scoliosis: a systematic review. Chiropractic & Manual Therapies, 2017, 25, 10.	1.5	32
36	Biomechanical effect of pedicle screw distribution in AIS instrumentation using a segmental translation technique: computer modeling and simulation. Scoliosis and Spinal Disorders, 2017, 12, 13.	2.3	17

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37	Defining the number and type of fixation anchors for optimal main curve correction in posterior surgery for adolescent idiopathic scoliosis. <i>Spine Journal</i> , 2017, 17, 663-670.	1.3	15
38	Tracking low back pain in adolescent idiopathic scoliosis: a prospective cohort study protocol. <i>Chiropractic & Manual Therapies</i> , 2017, 25, 22.	1.5	5
39	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
40	Revisiting the psychometric properties of the Scoliosis Research Society-22 (SRS-22) French version. <i>Scoliosis and Spinal Disorders</i> , 2017, 12, 21.	2.3	5
41	A Novel Automatic Method to Evaluate Scoliotic Trunk Shape Changes in Different Postures. Lecture Notes in Computer Science, 2017, , 455-462.	1.3	0
42	Sensitivity of MRI parameters within intervertebral discs to the severity of adolescent idiopathic scoliosis. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 1123-1131.	3.4	11
43	Postoperative 3D spine reconstruction by navigating partitioning manifolds. <i>Medical Physics</i> , 2016, 43, 1045-1056.	3.0	7
44	Three-dimensional morphology study of surgical adolescent idiopathic scoliosis patient from encoded geometric models. <i>European Spine Journal</i> , 2016, 25, 3104-3113.	2.2	48
45	Posterior convex release and interbody fusion for thoracic scoliosis: technical note. <i>Journal of Neurosurgery: Spine</i> , 2016, 25, 357-365.	1.7	4
46	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.	1.2	25
47	Reply to the "Comments on the pending <i>Spine Journal</i> publication: the effectiveness of the SpineCor brace for the conservative treatment of adolescent idiopathic scoliosis. Comparison with the Boston brace" by Charles Hilaire Rivard. <i>Spine Journal</i> , 2016, 16, 1026-1028.	1.3	0
48	Reply to Letter to the Editor by Allison Grant regarding the accepted manuscript by Gutman et al. (2016) entitled "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, 1030-1032.	1.3	0
49	Reply to the Letter to the Editor by Zaina et al. concerning the paper "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, 1033-1034.	1.3	0
50	Biomechanical Assessment of Providence Nighttime Brace for the Treatment of Adolescent Idiopathic Scoliosis. <i>Spine Deformity</i> , 2016, 4, 253-260.	1.5	17
51	Geometric Torsion in Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2016, 41, 1903-1907.	2.0	6
52	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.	2.2	22
53	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.	2.2	49
54	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.	1.3	19

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55	Trunk imbalance in adolescent idiopathic scoliosis. <i>Spine Journal</i> , 2016, 16, 687-693.	1.3	17
56	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.	1.6	16
57	Biomechanics of high-grade spondylolisthesis with and without reduction. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 619-628.	2.8	17
58	Longitudinal Scoliotic Trunk Analysis via Spectral Representation and Statistical Analysis. <i>Lecture Notes in Computer Science</i> , 2016, , 79-91.	1.3	3
59	Pathways of healthcare utilisation in patients with suspected adolescent idiopathic scoliosis: a cross-sectional study. <i>BMC Health Services Research</i> , 2015, 15, 500.	2.2	13
60	Spondylolisthesis, Sacro-Pelvic Morphology, and Orientation in Young Gymnasts. <i>Journal of Spinal Disorders and Techniques</i> , 2015, 28, E358-E364.	1.9	7
61	Prevalence and Management of Back Pain in Adolescent Idiopathic Scoliosis Patients: A Retrospective Study. <i>Pain Research and Management</i> , 2015, 20, 153-157.	1.8	46
62	The biomechanical effects of spinal fusion on the sacral loading in adolescent idiopathic scoliosis. <i>Clinical Biomechanics</i> , 2015, 30, 981-987.	1.2	9
63	A rule-based algorithm can output valid surgical strategies in the treatment of AIS. <i>European Spine Journal</i> , 2015, 24, 1370-1381.	2.2	3
64	Biomechanical Comparison of 2 Different Pedicle Screw Systems During the Surgical Correction of Adult Spinal Deformities. <i>Spine Deformity</i> , 2015, 3, 114-121.	1.5	6
65	Implant Distribution in Surgically Instrumented Lenke 1 Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2015, 40, 462-468.	2.0	37
66	Changes in Trunk Appearance After Scoliosis Spinal Surgery and Their Relation to Changes in Spinal Measurements. <i>Spine Deformity</i> , 2015, 3, 595-603.	1.5	11
67	Brace treatment of thoracolumbar kyphosis in spondylometaphyseal dysplasia with restoration of vertebral morphology and sagittal profile: a case report. <i>Spine Journal</i> , 2015, 15, e29-e34.	1.3	6
68	Three-Dimensional Spinopelvic Relative Alignment in Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2014, 39, 564-570.	2.0	41
69	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.	1.5	41
70	The relevance of sacral and sacro-pelvic morphology in developmental lumbosacral spondylolisthesis: are they equally important?. <i>European Spine Journal</i> , 2014, 23, 157-162.	2.2	10
71	Is Breast Asymmetry Present in Girls with Adolescent Idiopathic Scoliosis?. <i>Spine Deformity</i> , 2014, 2, 374-379.	1.5	10
72	Biomechanical loading of the sacrum in adolescent idiopathic scoliosis. <i>Clinical Biomechanics</i> , 2014, 29, 296-303.	1.2	18

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73	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.	2.0	91
74	Importance of a Regular Source of Primary Care in Adolescents. <i>Health Services Research and Managerial Epidemiology</i> , 2014, 1, 233339281455052.	0.9	1
75	3D Spine Reconstruction of Postoperative Patients from Multi-level Manifold Ensembles. <i>Lecture Notes in Computer Science</i> , 2014, 17, 361-368.	1.3	4
76	Multimodal image registration of the scoliotic torso for surgical planning. <i>BMC Medical Imaging</i> , 2013, 13, 1.	2.7	14
77	The effectiveness of scoliosis screening programs: methods for systematic review and expert panel recommendations formulation. <i>Scoliosis</i> , 2013, 8, 12.	0.4	16
78	Noninvasive Clinical Assessment of Trunk Deformities Associated With Scoliosis. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013, 17, 392-401.	6.3	6
79	Spine Segmentation in Medical Images Using Manifold Embeddings and Higher-Order MRFs. <i>IEEE Transactions on Medical Imaging</i> , 2013, 32, 1227-1238.	8.9	70
80	Artificial neural networks assessing adolescent idiopathic scoliosis: comparison with Lenke classification. <i>Spine Journal</i> , 2013, 13, 1527-1533.	1.3	17
81	Evidence-based clinical tool for quantitative analysis of posture in children and adolescents with idiopathic scoliosis. <i>Scoliosis</i> , 2013, 8, .	0.4	1
82	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
83	Scoliosis Follow-Up Using Noninvasive Trunk Surface Acquisition. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 2262-2270.	4.2	13
84	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.	2.2	121
85	Reliability and Validity of the Clinical Measurement of Trunk List in Children and Adolescents With Idiopathic Scoliosis. <i>Spine Deformity</i> , 2013, 1, 419-424.	1.5	5
86	Physical Significance of the Rib Vertebra Angle Difference and Its 3-Dimensional Counterpart in Early-Onset Scoliosis. <i>Spine Deformity</i> , 2013, 1, 259-265.	1.5	3
87	Biomechanical Assessment of Reduction Forces Measured During Scoliotic Instrumentation Using Two Different Screw Designs. <i>Spine Deformity</i> , 2013, 1, 94-101.	1.5	5
88	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.	1.3	30
89	Global sagittal alignment and health-related quality of life in lumbosacral spondylolisthesis. <i>European Spine Journal</i> , 2013, 22, 849-856.	2.2	82
90	Non-invasive quantitative assessment of scoliosis spinal surgery outcome. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0

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91	Differences in Standing and Sitting Postures of Youth with Idiopathic Scoliosis from Quantitative Analysis of Digital Photographs. <i>Physical and Occupational Therapy in Pediatrics</i> , 2013, 33, 313-326.	1.3	14
92	Development of a Detailed Volumetric Finite Element Model of the Spine to Simulate Surgical Correction of Spinal Deformities. <i>BioMed Research International</i> , 2013, 2013, 1-6.	1.9	13
93	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.	1.2	22
94	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
95	Three-Dimensional Spine Model Reconstruction Using One-Class SVM Regularization. <i>IEEE Transactions on Biomedical Engineering</i> , 2013, 60, 3256-3264.	4.2	11
96	Biomechanical Analysis of Vertebral Derotation Techniques for the Surgical Correction of Thoracic Scoliosis. <i>Spine</i> , 2013, 38, E73-E83.	2.0	17
97	Knowledge and management of Adolescent Idiopathic Scoliosis among family physicians, pediatricians, chiropractors and physiotherapists in Qu�bec, Canada: An exploratory study. <i>Journal of the Canadian Chiropractic Association</i> , 2013, 57, 251-9.	0.2	9
98	Multilevel statistical shape models: A new framework for modeling hierarchical structures. , 2012, , .		8
99	Impact of Prone Surgical Positioning on the Scoliotic Spine. <i>Journal of Spinal Disorders and Techniques</i> , 2012, 25, 173-181.	1.9	10
100	Biomechanical Analysis of Corrective Forces in Spinal Instrumentation for Scoliosis Treatment. <i>Spine</i> , 2012, 37, E1479-E1487.	2.0	20
101	Biomechanical Study of Patient Positioning. <i>Journal of Spinal Disorders and Techniques</i> , 2012, 25, 69-76.	1.9	12
102	Biomechanical Analysis of 4 Types of Pedicle Screws for Scoliotic Spine Instrumentation. <i>Spine</i> , 2012, 37, E823-E835.	2.0	32
103	Clinical Significance of Lumbosacral Kyphosis in Adolescent Spondylolisthesis. <i>Spine</i> , 2012, 37, 304-308.	2.0	27
104	Reliability of the Spinal Deformity Study Group Classification of Lumbosacral Spondylolisthesis. <i>Spine</i> , 2012, 37, E95-E102.	2.0	41
105	Multilevel Analysis of Trunk Surface Measurements for Noninvasive Assessment of Scoliosis Deformities. <i>Spine</i> , 2012, 37, E1045-E1053.	2.0	13
106	Non invasive classification system of scoliosis curve types using least-squares support vector machines. <i>Artificial Intelligence in Medicine</i> , 2012, 56, 99-107.	6.5	16
107	New brace design combining CAD/CAM and biomechanical simulation for the treatment of adolescent idiopathic scoliosis. <i>Clinical Biomechanics</i> , 2012, 27, 999-1005.	1.2	50
108	Analysis of scoliosis trunk deformities using ICA. , 2012, , .		1

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109	MRI signal distribution within the intervertebral disc as a biomarker of adolescent idiopathic scoliosis and spondylolisthesis. <i>BMC Musculoskeletal Disorders</i> , 2012, 13, 239.	1.9	27
110	Inter-rater reliability of the evaluation of muscular chains associated with posture alterations in scoliosis. <i>BMC Musculoskeletal Disorders</i> , 2012, 13, 80.	1.9	16
111	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
112	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
113	The evaluation of lumbosacral dysplasia in young patients with lumbosacral spondylolisthesis: comparison with controls and relationship with the severity of slip. <i>European Spine Journal</i> , 2012, 21, 2122-2127.	2.2	12
114	Biomechanical comparison of alternative densities of pedicle screws for the treatment of adolescent idiopathic scoliosis. <i>European Spine Journal</i> , 2012, 21, 1082-1090.	2.2	35
115	3D registration of MR and X-ray spine images using an articulated model. <i>Computerized Medical Imaging and Graphics</i> , 2012, 36, 410-418.	5.8	20
116	Reliability of a quantitative clinical posture assessment tool among persons with idiopathic scoliosis. <i>Physiotherapy</i> , 2012, 98, 64-75.	0.4	60
117	Classification of three-dimensional thoracic deformities in adolescent idiopathic scoliosis from a multivariate analysis. <i>European Spine Journal</i> , 2012, 21, 40-49.	2.2	53
118	Fast 3D Spine Reconstruction of Postoperative Patients Using a Multilevel Statistical Model. <i>Lecture Notes in Computer Science</i> , 2012, 15, 446-453.	1.3	11
119	Spinal Cord Injury in the Pediatric Population: A Systematic Review of the Literature. <i>Journal of Neurotrauma</i> , 2011, 28, 1515-1524.	3.4	142
120	Clinical methods for quantifying body segment posture: a literature review. <i>Disability and Rehabilitation</i> , 2011, 33, 367-383.	1.8	96
121	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.	1.2	18
122	Reliability and Accuracy Analysis of a New Semiautomatic Radiographic Measurement Software in Adult Scoliosis. <i>Spine</i> , 2011, 36, E780-E790.	2.0	39
123	Seeing the Spine in 3D. <i>Journal of Pediatric Orthopaedics</i> , 2011, 31, S37-S45.	1.2	96
124	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.	2.0	31
125	Validation and Clinical Relevance of a French-Canadian Version of the Spinal Appearance Questionnaire in Adolescent Patients. <i>Spine</i> , 2011, 36, 746-751.	2.0	29
126	Fast 3D reconstruction of the spine from biplanar radiographs using a deformable articulated model. <i>Medical Engineering and Physics</i> , 2011, 33, 924-933.	1.7	51

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127	A Novel Method for the 3-D Reconstruction of Scoliotic Ribs From Frontal and Lateral Radiographs. IEEE Transactions on Biomedical Engineering, 2011, 58, 1135-1146.	4.2	17
128	Computer algorithms and applications used to assist the evaluation and treatment of adolescent idiopathic scoliosis: a review of published articles 2000â€“2009. European Spine Journal, 2011, 20, 1058-1068.	2.2	14
129	Assessment of two novel surgical positions for the reduction of scoliotic deformities: lateral leg displacement and hip torsion. European Spine Journal, 2011, 20, 1711-1719.	2.2	3
130	Pediatric sagittal alignment. European Spine Journal, 2011, 20, 586-590.	2.2	111
131	Spino-pelvic sagittal balance of spondylolisthesis: a review and classification. European Spine Journal, 2011, 20, 641-646.	2.2	218
132	Pre and post-operative assessment of sagittal balance for high-grade developmental spondylolisthesis. ArgoSpine News and Journal, 2011, 23, 28-32.	0.1	5
133	Biomechanical modeling of brace treatment of scoliosis: effects of gravitational loads. Medical and Biological Engineering and Computing, 2011, 49, 743-753.	2.8	31
134	A new method to include the gravitational forces in a finite element model of the scoliotic spine. Medical and Biological Engineering and Computing, 2011, 49, 967-977.	2.8	45
135	Automatic inference of articulated spine models in CT images using high-order Markov Random Fields. Medical Image Analysis, 2011, 15, 426-437.	11.6	50
136	Characterizing Pelvis Dynamics in Adolescent With Idiopathic Scoliosis. Spine, 2010, 35, E820-E826.	2.0	19
137	A Variability Study of Computerized Sagittal Sacral Radiologic Measures. Spine, 2010, 35, 71-75.	2.0	13
138	Redefining the Technique for the Radiologic Measurement of Slip in Spondylolisthesis. Spine, 2010, 35, 1401-1405.	2.0	19
139	A Biomechanical Study of the Charleston Brace for the Treatment of Scoliosis. Spine, 2010, 35, E940-E947.	2.0	36
140	Correlation Between Immediate In-Brace Correction and Biomechanical Effectiveness of Brace Treatment in Adolescent Idiopathic Scoliosis. Spine, 2010, 35, 1706-1713.	2.0	67
141	Cell-Based Screening Test for Idiopathic Scoliosis Using Cellular Dielectric Spectroscopy. Spine, 2010, 35, E601-E608.	2.0	27
142	The Central Hip Vertical Axis. Spine, 2010, 35, E530-E534.	2.0	35
143	A Decision Tree Can Increase Accuracy When Assessing Curve Types According to Lenke Classification of Adolescent Idiopathic Scoliosis. Spine, 2010, 35, 1054-1059.	2.0	9
144	Validity of a Quantitative Clinical Measurement Tool of Trunk Posture in Idiopathic Scoliosis. Spine, 2010, 35, E988-E994.	2.0	59

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145	The impact of intra-operative sternum vertical displacement on the sagittal curves of the spine. <i>European Spine Journal</i> , 2010, 19, 421-426.	2.2	6
146	Comparison of the biomechanical 3D efficiency of different brace designs for the treatment of scoliosis using a finite element model. <i>European Spine Journal</i> , 2010, 19, 1169-1178.	2.2	65
147	Self-Calibration of Biplanar Radiographic Images Through Geometric Spine Shape Descriptors. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 1663-1675.	4.2	14
148	Automatic Detection of Scoliotic Curves in Posteroanterior Radiographs. <i>IEEE Transactions on Biomedical Engineering</i> , 2010, 57, 1143-1151.	4.2	28
149	A Computer-Aided Method for Scoliosis Fusion Level Selection by a Topologically Ordered Self Organizing Kohonen Network. , 2010, , .		1
150	A Modified Risser Grading System Predicts the Curve Acceleration Phase of Female Adolescent Idiopathic Scoliosis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 1073-1081.	3.0	63
151	Radiological and clinical outcome of non surgical management for pediatric high grade spondylolisthesis. <i>Studies in Health Technology and Informatics</i> , 2010, 158, 177-81.	0.3	8
152	Personalized X-Ray 3-D Reconstruction of the Scoliotic Spine From Hybrid Statistical and Image-Based Models. <i>IEEE Transactions on Medical Imaging</i> , 2009, 28, 1422-1435.	8.9	56
153	Effects of alternative instrumentation strategies in adolescent idiopathic scoliosis: A biomechanical analysis. <i>Journal of Orthopaedic Research</i> , 2009, 27, 104-113.	2.3	17
154	A three-dimensional retrospective analysis of the evolution of spinal instrumentation for the correction of adolescent idiopathic scoliosis. <i>European Spine Journal</i> , 2009, 18, 23-37.	2.2	65
155	Assessment of lumbosacral kyphosis in spondylolisthesis: a computer-assisted reliability study of six measurement techniques. <i>European Spine Journal</i> , 2009, 18, 212-217.	2.2	25
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