Stefan Parent

List of Publications by Year in descending order

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242 papers	5,908 citations	81900 39 h-index	118850 62 g-index
247 all docs	247 docs citations	247 times ranked	4336 citing authors

#	Article	IF	Citations
1	Diagnostic Imaging of Spinal Deformities. Spine, 2010, 35, 989-994.	2.0	302
2	The Influence of Time from Injury to Surgery on Motor Recovery and Length of Hospital Stay in Acute Traumatic Spinal Cord Injury: An Observational Canadian Cohort Study. Journal of Neurotrauma, 2015, 32, 645-654.	3.4	167
3	3D/2D registration and segmentation of scoliotic vertebrae using statistical models. Computerized Medical Imaging and Graphics, 2003, 27, 321-337.	5.8	147
4	Spinal Cord Injury in the Pediatric Population: A Systematic Review of the Literature. Journal of Neurotrauma, 2011, 28, 1515-1524.	3.4	142
5	Perioperative Complications After Surgical Correction in Neuromuscular Scoliosis. Journal of Pediatric Orthopaedics, 2007, 27, 392-397.	1.2	133
6	Spinal cord perfusion pressure predicts neurologic recovery in acute spinal cord injury. Neurology, 2017, 89, 1660-1667.	1.1	121
7	Operative Versus Nonoperative Treatment for Adult Symptomatic Lumbar Scoliosis. Journal of Bone and Joint Surgery - Series A, 2019, 101, 338-352.	3.0	110
8	The Impact of Specialized Centers of Care for Spinal Cord Injury on Length of Stay, Complications, and Mortality: A Systematic Review of the Literature. Journal of Neurotrauma, 2011, 28, 1363-1370.	3.4	108
9	Morphometric Analysis of Anatomic Scoliotic Specimens. Spine, 2002, 27, 2305-2311.	2.0	97
10	Thoracic Pedicle Morphometry in Vertebrae from Scoliotic Spines. Spine, 2004, 29, 239-248.	2.0	96
11	Seeing the Spine in 3D. Journal of Pediatric Orthopaedics, 2011, 31, S37-S45.	1.2	96
12	Three-Dimensional Spinal Morphology Can Differentiate Between Progressive and Nonprogressive Patients With Adolescent Idiopathic Scoliosis at the Initial Presentation. Spine, 2014, 39, E601-E606.	2.0	91
13	The changing demographics of traumatic spinal cord injury: An 11-year study of 831 patients. Journal of Spinal Cord Medicine, 2015, 38, 214-223.	1.4	86
14	Do Patients with Complete Spinal Cord Injury Benefit from Early Surgical Decompression? Analysis of Neurological Improvement in a Prospective Cohort Study. Journal of Neurotrauma, 2016, 33, 301-306.	3.4	72
15	Prospective Evaluation of 50 Consecutive Scoliosis Patients Surgically Treated With Thoracoscopic Anterior Instrumentation. Spine, 2005, 30, S100-S109.	2.0	70
16	Adolescent idiopathic scoliosis: etiology, anatomy, natural history, and bracing. Instructional Course Lectures, 2005, 54, 529-36.	0.2	70
17	Minimizing Errors in Acute Traumatic Spinal Cord Injury Trials by Acknowledging the Heterogeneity of Spinal Cord Anatomy and Injury Severity: An Observational Canadian Cohort Analysis. Journal of Neurotrauma, 2014, 31, 1540-1547.	3.4	69
18	Correlation Between Immediate In-Brace Correction and Biomechanical Effectiveness of Brace Treatment in Adolescent Idiopathic Scoliosis. Spine, 2010, 35, 1706-1713.	2.0	67

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19	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.	2.2	65
20	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.	2.2	65
21	Complications in acute phase hospitalization of traumatic spinal cord injury. Journal of Trauma and Acute Care Surgery, 2013, 74, 849-854.	2.1	64
22	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.	3.0	63
23	Neurological Outcome and Management of Pedicle Screws Misplaced Totally Within the Spinal Canal. Spine, 2013, 38, 229-237.	2.0	63
24	Multilevel Spinal Growth Modulation With an Anterolateral Flexible Tether in an Immature Bovine Model. Spine, 2005, 30, 2608-2613.	2.0	62
25	Spinal Appearance Questionnaire. Spine, 2011, 36, E1240-E1244.	2.0	62
26	The effects of the three-dimensional deformity of adolescent idiopathic scoliosis on pulmonary function. European Spine Journal, 2017, 26, 1658-1664.	2.2	58
27	Reliability and Validity of Adapted French Canadian Version of Scoliosis Research Society Outcomes Questionnaire (SRS-22) in Quebec. Spine, 2009, 34, 623-628.	2.0	54
28	Effect of older age on treatment decisions and outcomes among patients with traumatic spinal cord injury. Cmaj, 2015, 187, 873-880.	2.0	51
29	Assessment of Spinal Flexibility in Adolescent Idiopathic Scoliosis. Spine, 2009, 34, 591-597.	2.0	50
30	New brace design combining CAD/CAM and biomechanical simulation for the treatment of adolescent idiopathic scoliosis. Clinical Biomechanics, 2012, 27, 999-1005.	1.2	50
31	Estrogen crossâ€talk with the melatonin signaling pathway in human osteoblasts derived from adolescent idiopathic scoliosis patients. Journal of Pineal Research, 2008, 45, 383-393.	7.4	49
32	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. European Spine Journal, 2016, 25, 3056-3064.	2.2	49
33	Three-dimensional morphology study of surgical adolescent idiopathic scoliosis patient from encoded geometric models. European Spine Journal, 2016, 25, 3104-3113.	2.2	48
34	Vertebral Wedging Characteristic Changes in Scoliotic Spines. Spine, 2004, 29, E455-E462.	2.0	46
35	MicroRNA Biomarkers in Cerebrospinal Fluid and Serum Reflect Injury Severity in Human Acute Traumatic Spinal Cord Injury. Journal of Neurotrauma, 2019, 36, 2358-2371.	3.4	46
36	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

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37	Toward Automated 3D Spine Reconstruction from Biplanar Radiographs Using CNN for Statistical Spine Model Fitting. IEEE Transactions on Medical Imaging, 2019, 38, 2796-2806.	8.9	43
38	Titanium Versus Stainless Steel for Anterior Spinal Fusions. Spine, 2007, 32, 42-48.	2.0	41
39	Reliability of the Spinal Deformity Study Group Classification of Lumbosacral Spondylolisthesis. Spine, 2012, 37, E95-E102.	2.0	41
40	Three-Dimensional Spinopelvic Relative Alignment in Adolescent Idiopathic Scoliosis. Spine, 2014, 39, 564-570.	2.0	41
41	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. Spine Deformity, 2014, 2, 276-284.	1.5	41
42	Male-Female Differences in Scoliosis Research Society-30 Scores in Adolescent Idiopathic Scoliosis. Spine, 2011, 36, E53-E59.	2.0	40
43	Unique Features of Pediatric Spinal Cord Injury. Spine, 2010, 35, S202-S208.	2.0	39
44	Reliability and Accuracy Analysis of a New Semiautomatic Radiographic Measurement Software in Adult Scoliosis. Spine, 2011, 36, E780-E790.	2.0	39
45	Biomechanical comparison of fusionless growth modulation corrective techniques in pediatric scoliosis. Medical and Biological Engineering and Computing, 2011, 49, 1437-1445.	2.8	39
46	Reliability and development of a new classification of lumbosacral spondylolisthesis. Scoliosis, 2008, 3, 19.	0.4	38
47	Does Timing of Surgery Affect Hospitalization Costs and Length of Stay for Acute Care following a Traumatic Spinal Cord Injury?. Journal of Neurotrauma, 2012, 29, 2816-2822.	3.4	38
48	Parallel Metabolomic Profiling of Cerebrospinal Fluid and Serum for Identifying Biomarkers of Injury Severity after Acute Human Spinal Cord Injury. Scientific Reports, 2016, 6, 38718.	3.3	38
49	Oral Analgesics Utilization for Children With Musculoskeletal Injury (OUCH Trial): An RCT. Pediatrics, 2017, 140, .	2.1	37
50	Displaced Olecranon Fractures in Children. Journal of Pediatric Orthopaedics, 2008, 28, 147-151.	1.2	36
51	A Biomechanical Study of the Charleston Brace for the Treatment of Scoliosis. Spine, 2010, 35, E940-E947.	2.0	36
52	Influence of Sacral Morphology in Developmental Spondylolisthesis. Spine, 2008, 33, 2185-2191.	2.0	34
53	3D correction of AIS in braces designed using CAD/CAM and FEM: a randomized controlled trial. Scoliosis and Spinal Disorders, 2017, 12, 24.	2.3	34
54	Right Thoracic Curves in Presumed Adolescent Idiopathic Scoliosis. Spine, 2010, 35, 1855-1860.	2.0	33

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55	Microarray expression profiling identifies genes with altered expression in Adolescent Idiopathic Scoliosis. European Spine Journal, 2013, 22, 1300-1311.	2.2	33
56	Surgical Planning and Follow-up of Anterior Vertebral Body Growth Modulation in Pediatric Idiopathic Scoliosis Using a Patient-Specific Finite Element Model Integrating Growth Modulation. Spine Deformity, 2018, 6, 344-350.	1.5	33
57	Biomechanical Analysis of 4 Types of Pedicle Screws for Scoliotic Spine Instrumentation. Spine, 2012, 37, E823-E835.	2.0	32
58	Non-Neurological Outcomes after Complete Traumatic Spinal Cord Injury: The Impact of Surgical Timing. Journal of Neurotrauma, 2013, 30, 1596-1601.	3.4	32
59	Guided Imagery for Adolescent Post-spinal Fusion Pain Management: A Pilot Study. Pain Management Nursing, 2015, 16, 211-220.	0.9	32
60	3D correction over 2 years with anterior vertebral body growth modulation: A finite element analysis of screw positioning, cable tensioning and postoperative functional activities. Clinical Biomechanics, 2018, 51, 26-33.	1.2	32
61	Biomechanical modeling of brace treatment of scoliosis: effects of gravitational loads. Medical and Biological Engineering and Computing, 2011, 49, 743-753.	2.8	31
62	Empirical targets for acute hemodynamic management of individuals with spinal cord injury. Neurology, 2019, 93, e1205-e1211.	1.1	31
63	The role of spinal concaveâ€“convex biases in the progression of idiopathic scoliosis. European Spine Journal, 2009, 18, 180-187.	2.2	30
64	Quality of life of patients with high-grade spondylolisthesis: minimum 2-year follow-up after surgical and nonsurgical treatments. Spine Journal, 2013, 13, 770-774.	1.3	30
65	A Targeted Proteomics Analysis of Cerebrospinal Fluid after Acute Human Spinal Cord Injury. Journal of Neurotrauma, 2017, 34, 2054-2068.	3.4	30
66	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
67	Anterior Vertebral Body Tethering for Treatment of Idiopathic Scoliosis in the Skeletally Immature. Spine, 2021, 46, 1461-1467.	2.0	30
68	Validation and Clinical Relevance of a French-Canadian Version of the Spinal Appearance Questionnaire in Adolescent Patients. Spine, 2011, 36, 746-751.	2.0	29
69	An analysis of ideal and actual time to surgery after traumatic spinal cord injury in Canada. Spinal Cord, 2017, 55, 618-623.	1.9	29
70	Anterior Vertebral Body Growth-Modulation Tethering in Idiopathic Scoliosis: Surgical Technique. Journal of the American Academy of Orthopaedic Surgeons, The, 2020, 28, 693-699.	2.5	29
71	Growth plate explants respond differently to in vitro static and dynamic loadings. Journal of Orthopaedic Research, 2011, 29, 473-480.	2.3	28
72	Baseline Patient-Reported Outcomes Correlate Weakly With Radiographic Parameters. Spine, 2016, 41, 1701-1708.	2.0	28

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73	Cell-Based Screening Test for Idiopathic Scoliosis Using Cellular Dielectric Spectroscopy. Spine, 2010, 35, E601-E608.	2.0	27
74	MRI signal distribution within the intervertebral disc as a biomarker of adolescent idiopathic scoliosis and spondylolisthesis. BMC Musculoskeletal Disorders, 2012, 13, 239.	1.9	27
75	A Replication Study for Association of 53 Single Nucleotide Polymorphisms in ScoliScore Test With Adolescent Idiopathic Scoliosis in French-Canadian Population. Spine, 2015, 40, 537-543.	2.0	27
76	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
77	A novel fusionless vertebral physeal device inducing spinal growth modulation for the correction of spinal deformities. European Spine Journal, 2008, 17, 1329-1335.	2.2	26
78	Assessment of lumbosacral kyphosis in spondylolisthesis: a computer-assisted reliability study of six measurement techniques. European Spine Journal, 2009, 18, 212-217.	2.2	25
79	Mechanobiological bone growth: comparative analysis of two biomechanical modeling approaches. Medical and Biological Engineering and Computing, 2009, 47, 357-366.	2.8	25
80	Adolescent idiopathic scoliosis associated POC5 mutation impairs cell cycle, cilia length and centrosome protein interactions. PLoS ONE, 2019, 14, e0213269.	2.5	25
81	Treatment of Thoracolumbar Burst Fractures by Means of Anterior Fusion and Cage. Journal of Spinal Disorders and Techniques, 2012, 25, 30-37.	1.9	24
82	A Predictive Model of Progression for Adolescent Idiopathic Scoliosis Based on 3D Spine Parameters at First Visit. Spine, 2020, 45, 605-611.	2.0	23
83	Three-dimensional Spine Parameters Can Differentiate Between Progressive and Nonprogressive Patients With AIS at the Initial Visit. Journal of Pediatric Orthopaedics, 2013, 33, 618-623.	1.2	22
84	Evaluation of an apparatus to be combined with a smartphone for the early detection of spinal deformities. Scoliosis, 2014, 9, 10.	0.4	22
85	Immersive virtual reality vs. nonâ€immersive distraction for pain management of children during bone pins and sutures removal: A randomized clinical trial protocol. Journal of Advanced Nursing, 2021, 77, 439-447.	3.3	22
86	Risk of early complication following anterior vertebral body tethering for idiopathic scoliosis. Spine Deformity, 2021, 9, 1419-1431.	1.5	22
87	Does the Direction of Pedicle Screw Rotation Affect the Biomechanics of Direct Transverse Plane Vertebral Derotation?. Spine, 2008, 33, 1966-1969.	2.0	21
88	3-D Morphology Prediction of Progressive Spinal Deformities From Probabilistic Modeling of Discriminant Manifolds. IEEE Transactions on Medical Imaging, 2017, 36, 1194-1204.	8.9	21
89	Improving Health-related Quality of Life for Patients With Nonambulatory Cerebral Palsy: Who Stands to Gain From Scoliosis Surgery?. Journal of Pediatric Orthopaedics, 2020, 40, e186-e192.	1.2	21
90	Towards a new 3D classification for adolescent idiopathic scoliosis. Spine Deformity, 2020, 8, 387-396.	1.5	21

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91	Biomechanical Analysis of Corrective Forces in Spinal Instrumentation for Scoliosis Treatment. Spine, 2012, 37, E1479-E1487.	2.0	20
92	Global geometric torsion estimation in adolescent idiopathic scoliosis. Medical and Biological Engineering and Computing, 2014, 52, 309-319.	2.8	20
93	Early Impact of Postoperative Bracing on Pain and Quality of Life After Posterior Instrumented Fusion for Lumbar Degenerative Conditions. Spine, 2018, 43, 155-160.	2.0	20
94	Restoration of normal pelvic balance from surgical reduction in high-grade spondylolisthesis. European Spine Journal, 2019, 28, 2087-2094.	2.2	20
95	Characterizing Pelvis Dynamics in Adolescent With Idiopathic Scoliosis. Spine, 2010, 35, E820-E826.	2.0	19
96	The effectiveness of the SpineCor brace for the conservative treatment of adolescent idiopathic scoliosis. Comparison with the Boston brace. Spine Journal, 2016, 16, 626-631.	1.3	19
97	Braces Designed Using CAD/CAM Combined or Not With Finite Element Modeling Lead to Effective Treatment and Quality of Life After 2 Years. Spine, 2021, 46, 9-16.	2.0	19
98	Biomechanical loading of the sacrum in adolescent idiopathic scoliosis. Clinical Biomechanics, 2014, 29, 296-303.	1.2	18
99	Patient Factors That Influence Decision Making. Spine, 2016, 41, E349-E358.	2.0	18
100	Reciprocal Changes in Sagittal Alignment With Operative Treatment of Adolescent Scheuermann Kyphosisâ€"Prospective Evaluation of 96 Patients. Spine Deformity, 2018, 6, 177-184.	1.5	18
101	Biomechanical modeling of the lateral decubitus posture during corrective scoliosis surgery. Clinical Biomechanics, 2010, 25, 510-516.	1.2	17
102	Spinal growth modulation using a novel intravertebral epiphyseal device in an immature porcine model. European Spine Journal, 2012, 21, 138-144.	2.2	17
103	Biomechanical Analysis of Vertebral Derotation Techniques for the Surgical Correction of Thoracic Scoliosis. Spine, 2013, 38, E73-E83.	2.0	17
104	Does the Acute Care Spinal Cord Injury Setting Predict the Occurrence of Pressure Ulcers at Arrival to Intensive Rehabilitation Centers?. American Journal of Physical Medicine and Rehabilitation, 2016, 95, 300-308.	1.4	17
105	Trunk imbalance in adolescent idiopathic scoliosis. Spine Journal, 2016, 16, 687-693.	1.3	17
106	Biomechanics of high-grade spondylolisthesis with and without reduction. Medical and Biological Engineering and Computing, 2016, 54, 619-628.	2.8	17
107	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
108	Computerâ€assisted pedicle screw trajectory planning using CTâ€inferred bone density: A demonstration against surgical outcomes. Medical Physics, 2019, 46, 3543-3554.	3.0	17

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109	The effectiveness of scoliosis screening programs: methods for systematic review and expert panel recommendations formulation. Scoliosis, 2013, 8, 12.	0.4	16
110	Biomechanical Simulation and Analysis of Scoliosis Correction Using a Fusionless Intravertebral Epiphyseal Device. Spine, 2015, 40, 369-376.	2.0	16
111	The impact of spine stability on cervical spinal cord injury with respect to demographics, management, and outcome: a prospective cohort from a national spinal cord injury registry. Spine Journal, 2018, 18, 88-98.	1.3	16
112	Operative versus nonoperative treatment for adult symptomatic lumbar scoliosis at 5-year follow-up: durability of outcomes and impact of treatment-related serious adverse events. Journal of Neurosurgery: Spine, 2021, 35, 67-79.	1.7	16
113	Pharmacokinetics and Pharmacodynamics of Oral Cephalexin in Children With Osteoarticular Infections. Pediatric Infectious Disease Journal, 2013, 32, 1340-1344.	2.0	15
114	Automatic spine and pelvis detection in frontal X-rays using deep neural networks for patch displacement learning. , 2016, , .		15
115	Defining the number and type of fixation anchors for optimal main curve correction in posterior surgery for adolescent idiopathic scoliosis. Spine Journal, 2017, 17, 663-670.	1.3	15
116	Contribution of Lateral Decubitus Positioning and Cable Tensioning on Immediate Correction in Anterior Vertebral Body Growth Modulation. Spine Deformity, 2018, 6, 507-513.	1.5	15
117	Accuracy and Precision of Seven Radiography-Based Measurement Methods of Vertebral Axial Rotation in Adolescent Idiopathic Scoliosis. Spine Deformity, 2018, 6, 351-357.	1.5	15
118	Effect of Serious Adverse Events on Health-related Quality of Life Measures Following Surgery for Adult Symptomatic Lumbar Scoliosis. Spine, 2019, 44, 1211-1219.	2.0	15
119	MRI utilization and rates of abnormal pretreatment MRI findings in early-onset scoliosis: review of a global cohort. Spine Deformity, 2020, 8, 1099-1107.	1.5	15
120	The Influence of Proximal Anchors on the Risk of Proximal Junctional Fracture in the Osteoporotic Spine. Journal of Spinal Disorders and Techniques, 2014, 27, E49-E54.	1.9	14
121	Measurement Properties of the Scoliosis Research Society Outcomes Questionnaire in Adolescent Patients With Spondylolisthesis. Spine, 2017, 42, 1316-1321.	2.0	14
122	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. Spine Deformity, 2019, 7, 2-10.	1.5	14
123	Assessment of Sacral Doming in Lumbosacral Spondylolisthesis. Spine, 2007, 32, 1888-1895.	2.0	13
124	Three-dimensional reconstruction of the rib cage from biplanar radiography. Irbm, 2008, 29, 278-286.	5.6	13
125	A Variability Study of Computerized Sagittal Sacral Radiologic Measures. Spine, 2010, 35, 71-75.	2.0	13
126	Development of a Detailed Volumetric Finite Element Model of the Spine to Simulate Surgical Correction of Spinal Deformities. BioMed Research International, 2013, 2013, 1-6.	1.9	13

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127	Biomechanical analysis of Ponte and pedicle subtraction osteotomies for the surgical correction of kyphotic deformities. European Spine Journal, 2016, 25, 2452-2460.	2.2	13
128	Retrospective Analysis of Congenital Scoliosis. Spine, 2017, 42, E841-E847.	2.0	13
129	Criteria for surgical reduction in high-grade lumbosacral spondylolisthesis based on quality of life measures. European Spine Journal, 2019, 28, 2060-2069.	2.2	13
130	Compressive mechanical modulation alters the viability of growth plate chondrocytes in vitro. Journal of Orthopaedic Research, 2015, 33, 1587-1593.	2.3	12
131	Anterior Vertebral Body Growth Modulation. Spine, 2020, 45, E1203-E1209.	2.0	12
132	Modified Clavienâ€“Dindoâ€“sink classification system for adolescent idiopathic scoliosis. Spine Deformity, 2022, 10, 87-95.	1.5	12
133	Changes in Trunk Appearance After Scoliosis Spinal Surgery and Their Relation to Changes in Spinal Measurements. Spine Deformity, 2015, 3, 595-603.	1.5	11
134	Sensitivity of MRI parameters within intervertebral discs to the severity of adolescent idiopathic scoliosis. Journal of Magnetic Resonance Imaging, 2016, 44, 1123-1131.	3.4	11
135	Predicting lowest hemoglobin level and risk of blood transfusion in spinal fusion surgery for adolescent idiopathic scoliosis. European Spine Journal, 2019, 28, 1342-1348.	2.2	11
136	L3 translation predicts when L3 is not distal enough for an â€œidealâ€•result in Lenke 5 curves. European Spine Journal, 2019, 28, 1349-1355.	2.2	11
137	Long-term follow-up after surgical treatment of adolescent idiopathic scoliosis using high-density pedicle screw constructs: Is 5-year routine visit required?. European Spine Journal, 2019, 28, 1296-1300.	2.2	11
138	Retrospective analysis of fetal vertebral defects: Associated anomalies, etiologies, and outcome. American Journal of Medical Genetics, Part A, 2020, 182, 664-672.	1.2	11
139	The Effect of Psychological Interventions on the Prevention of Chronic Pain in Adults. Clinical Journal of Pain, 2021, 37, 379-395.	1.9	11
140	Personalized 3D reconstruction of the rib cage for clinical assessment of trunk deformities. Medical Engineering and Physics, 2013, 35, 1651-1658.	1.7	10
141	The relevance of sacral and sacro-pelvic morphology in developmental lumbosacral spondylolisthesis: are they equally important?. European Spine Journal, 2014, 23, 157-162.	2.2	10
142	Is Breast Asymmetry Present in Girls with Adolescent Idiopathic Scoliosis?. Spine Deformity, 2014, 2, 374-379.	1.5	10
143	Growth plate cartilage shows different strain patterns in response to static versus dynamic mechanical modulation. Biomechanics and Modeling in Mechanobiology, 2016, 15, 933-946.	2.8	10
144	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

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145	The effect of psychological interventions on the prevention of chronic pain in adults: a systematic review protocol. Systematic Reviews, 2017, 6, 190.	5.3	10
146	To distinguish flexible and rigid lumbar curve from MRI texture analysis in adolescent idiopathic scoliosis: A feasibility study. Journal of Magnetic Resonance Imaging, 2018, 48, 178-187.	3.4	10
147	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
148	Effect of Spinal Level and Loading Conditions on the Production of Vertebral Burst Fractures in a Porcine Model. Journal of Biomechanical Engineering, 2011, 133, 094503.	1.3	9
149	Optical coherence tomography for the identification of musculoskeletal structures of the spine: a pilot study. Biomedical Optics Express, 2012, 3, 533.	2.9	9
150	The biomechanical effects of spinal fusion on the sacral loading in adolescent idiopathic scoliosis. Clinical Biomechanics, 2015, 30, 981-987.	1.2	9
151	Novel Hemi-Staple for the Fusionless Correction of Pediatric Scoliosis. Clinical Spine Surgery, 2016, 29, 457-464.	1.3	9
152	Surgical Consent of Children and Guardians for the Treatment of Adolescent Idiopathic Scoliosis is Incompletely Informed. Spine, 2016, 41, 53-61.	2.0	9
153	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
154	Computer-assisted pedicle screw placement planning: Towards clinical practice. , 2018, , .		9
155	Prevalence and natural history of scoliosis and associated congenital vertebral anomalies in patients operated for esophageal atresia with or without tracheoesophageal fistula. Journal of Pediatric Surgery, 2019, 54, 1308-1311.	1.6	9
156	A novel fully automatic measurement of apparent breast volume from trunk surface mesh. Medical Engineering and Physics, 2017, 41, 46-54.	1.7	8
157	Expectations for Postoperative Improvement in Health-Related Quality of Life in Young Patients With Lumbosacral Spondylolisthesis. Spine, 2019, 44, E181-E186.	2.0	8
158	The impact of surgical reduction of high-grade lumbosacral spondylolisthesis on proximal femoral angle and quality of life. Spine Journal, 2019, 19, 670-676.	1.3	8
159	Growth guidance constructs with apical fusion and sliding pedicle screws (SHILLA) results in approximately 1/3rd of normal T1â€“S1 growth. Spine Deformity, 2020, 8, 531-535.	1.5	8
160	Image-Guided Tethering Spine Surgery With Outcome Prediction Using Spatio-Temporal Dynamic Networks. IEEE Transactions on Medical Imaging, 2021, 40, 491-502.	8.9	8
161	The Scoliosis Research Society adult spinal deformity standard outcome set. Spine Deformity, 2021, 9, 1211-1221.	1.5	8
162	To tether or fuse? Significant equipoise remains in treatment recommendations for idiopathic scoliosis. Spine Deformity, 2022, 10, 763-773.	1.5	8

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163	Spondylolisthesis, Sacro-Pelvic Morphology, and Orientation in Young Gymnasts. Journal of Spinal Disorders and Techniques, 2015, 28, E358-E364.	1.9	7
164	Postoperative 3D spine reconstruction by navigating partitioning manifolds. Medical Physics, 2016, 43, 1045-1056.	3.0	7
165	A Prospective, Multicenter Analysis of the Efficacy of Anterior Vertebral Body Tethering (AVBT) in the Treatment of Idiopathic Scoliosis. Spine Deformity, 2018, 6, 820.	1.5	7
166	Prediction outcomes for anterior vertebral body growth modulation surgery from discriminant spatiotemporal manifolds. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 1565-1575.	2.8	7
167	Shoulder balance in patients with Lenke type 1 and 2 idiopathic scoliosis appears satisfactory at 2Âyears following anterior vertebral body tethering of the spine. Spine Deformity, 2021, 9, 1591-1599.	1.5	7
168	Compressive Loading of the Spine May Affect the Spinal Canal Encroachment of Burst Fractures. Journal of Spinal Disorders and Techniques, 2013, 26, 342-346.	1.9	6
169	Biomechanical Comparison of 2 Different Pedicle Screw Systems During the Surgical Correction of Adult Spinal Deformities. Spine Deformity, 2015, 3, 114-121.	1.5	6
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