

Stefan Parent

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 | Modified Clavienâ€“Dindoâ€“ sink classification system for adolescent idiopathic scoliosis. <i>Spine Deformity</i> , 2022, 10, 87-95. | 1.5 | 12 |
| 3 | Full-Length Spineâ€“Plain Radiographs. , 2022, , 135-141. | | 0 |
| 4 | Body mass index affects outcomes after vertebral body tethering surgery. <i>Spine Deformity</i> , 2022, 10, 563-571. | 1.5 | 3 |
| 5 | Thoracic Curve Correction Ratio: An Objective Measure to Guide against Overcorrection of a Main Thoracic Curve in the Setting of a Structural Proximal Thoracic Curve. <i>Journal of Clinical Medicine</i> , 2022, 11, 1545. | 2.4 | 1 |
| 6 | To tether or fuse? Significant equipoise remains in treatment recommendations for idiopathic scoliosis. <i>Spine Deformity</i> , 2022, 10, 763-773. | 1.5 | 8 |
| 7 | Preoperative factors associated with optimal outcomes of selective thoracic fusion at 5Âyears. <i>Spine Deformity</i> , 2022, 10, 1117-1122. | 1.5 | 2 |
| 8 | Ten-year follow-up of Lenke 5 curves treated with spinal fusion. <i>Spine Deformity</i> , 2022, 10, 1107-1115. | 1.5 | 1 |
| 9 | 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 |
| 10 | Immersive virtual reality vs. nonâ€“immersive distraction for pain management of children during bone pins and sutures removal: A randomized clinical trial protocol. <i>Journal of Advanced Nursing</i> , 2021, 77, 439-447. | 3.3 | 22 |
| 11 | Image-Guided Tethering Spine Surgery With Outcome Prediction Using Spatio-Temporal Dynamic Networks. <i>IEEE Transactions on Medical Imaging</i> , 2021, 40, 491-502. | 8.9 | 8 |
| 12 | 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 |
| 13 | The Effect of Psychological Interventions on the Prevention of Chronic Pain in Adults. <i>Clinical Journal of Pain</i> , 2021, 37, 379-395. | 1.9 | 11 |
| 14 | The Scoliosis Research Society adult spinal deformity standard outcome set. <i>Spine Deformity</i> , 2021, 9, 1211-1221. | 1.5 | 8 |
| 15 | Risk of early complication following anterior vertebral body tethering for idiopathic scoliosis. <i>Spine Deformity</i> , 2021, 9, 1419-1431. | 1.5 | 22 |
| 16 | Anterior Vertebral Body Tethering for Treatment of Idiopathic Scoliosis in the Skeletally Immature. <i>Spine</i> , 2021, 46, 1461-1467. | 2.0 | 30 |
| 17 | Iatrogenic dural tear after growth modulation in AIS: an unusual complication and its management. <i>Spine Deformity</i> , 2021, 9, 1699-1703. | 1.5 | 4 |
| 18 | Shoulder balance in patients with Lenke type 1 and 2 idiopathic scoliosis appears satisfactory at 2Âyears following anterior vertebral body tethering of the spine. <i>Spine Deformity</i> , 2021, 9, 1591-1599. | 1.5 | 7 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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. <i>Journal of Neurosurgery: Spine</i> , 2021, 35, 67-79. | 1.7 | 16 |
| 20 | Prevalence of POC5 Coding Variants in French-Canadian and British AIS Cohort. <i>Genes</i> , 2021, 12, 1032. | 2.4 | 4 |
| 21 | Intra-operative forecasting of growth modulation spine surgery outcomes with spatio-temporal dynamic networks. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2021, 16, 1641-1651. | 2.8 | 1 |
| 22 | Use of Vancomycin Powder in the Surgical Treatment of Early Onset Scoliosis Is Associated With Different Microbiology Cultures After Surgical Site Infection. <i>Journal of Pediatric Orthopaedics</i> , 2021, 41, e702-e705. | 1.2 | 4 |
| 23 | Automatic bone maturity grading from EOS radiographs in Adolescent Idiopathic Scoliosis. <i>Computers in Biology and Medicine</i> , 2021, 136, 104681. | 7.0 | 1 |
| 24 | Long-term Patient Perception Following Surgery for Adolescent Idiopathic Scoliosis if Dissatisfied at 2-year Follow-up. <i>Spine</i> , 2021, 46, 507-511. | 2.0 | 3 |
| 25 | Improving Health-related Quality of Life for Patients With Nonambulatory Cerebral Palsy: Who Stands to Gain From Scoliosis Surgery?. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, e186-e192. | 1.2 | 21 |
| 26 | Retrospective analysis of fetal vertebral defects: Associated anomalies, etiologies, and outcome. <i>American Journal of Medical Genetics, Part A</i> , 2020, 182, 664-672. | 1.2 | 11 |
| 27 | 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 |
| 28 | Is Anterior Release Obsolete or Does It Play a Role in Contemporary Adolescent Idiopathic Scoliosis Surgery? A Matched Pair Analysis. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, e161-e165. | 1.2 | 5 |
| 29 | Anterior Vertebral Body Growth Modulation. <i>Spine</i> , 2020, 45, E1203-E1209. | 2.0 | 12 |
| 30 | 156. Operative vs nonoperative treatment for adult symptomatic lumbar scoliosis at 5-6-year follow-up: outcomes and impact of related serious adverse events. <i>Spine Journal</i> , 2020, 20, S77-S78. | 1.3 | 1 |
| 31 | Anterior Vertebral Body Growth-Modulation Tethering in Idiopathic Scoliosis: Surgical Technique. <i>Journal of the American Academy of Orthopaedic Surgeons, The</i> , 2020, 28, 693-699. | 2.5 | 29 |
| 32 | Convolutional Neural Networks for Automatic Risser Stage Assessment. <i>Radiology: Artificial Intelligence</i> , 2020, 2, e180063. | 5.8 | 5 |
| 33 | Induced pressures on the epiphyseal growth plate with non segmental anterior spine tethering. <i>Spine Deformity</i> , 2020, 8, 585-589. | 1.5 | 3 |
| 34 | Towards a new 3D classification for adolescent idiopathic scoliosis. <i>Spine Deformity</i> , 2020, 8, 387-396. | 1.5 | 21 |
| 35 | Growth guidance constructs with apical fusion and sliding pedicle screws (SHILLA) results in approximately 1/3rd of normal T1â€”S1 growth. <i>Spine Deformity</i> , 2020, 8, 531-535. | 1.5 | 8 |
| 36 | Cyclically controlled vertebral body tethering for scoliosis: an in vivo verification in a pig model of the pressure exerted on vertebral end plates. <i>Spine Deformity</i> , 2020, 8, 39-44. | 1.5 | 4 |

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|----|--|-----|-----------|
| 37 | MRI utilization and rates of abnormal pretreatment MRI findings in early-onset scoliosis: review of a global cohort. <i>Spine Deformity</i> , 2020, 8, 1099-1107. | 1.5 | 15 |
| 38 | Intra-operative Forecasting of Growth Modulation Spine Surgery Outcomes with Spatio-Temporal Dynamic Networks. <i>Lecture Notes in Computer Science</i> , 2020, , 751-760. | 1.3 | 1 |
| 39 | A Differential Hypofunctionality of Gli3 Proteins Occurs in Adolescent Idiopathic Scoliosis and Correlates with the Risk of Disease Progression. <i>Scientific Reports</i> , 2019, 9, 10074. | 3.3 | 4 |
| 40 | Prediction outcomes for anterior vertebral body growth modulation surgery from discriminant spatiotemporal manifolds. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 1565-1575. | 2.8 | 7 |
| 41 | A Fully Automatic 3D Reconstruction of Scoliotic Spine from Biplanar Radiographs in a Suspension Framework. , 2019, , . | | 0 |
| 42 | Empirical targets for acute hemodynamic management of individuals with spinal cord injury. <i>Neurology</i> , 2019, 93, e1205-e1211. | 1.1 | 31 |
| 43 | 147. Prospective randomized controlled trial of implant density in AIS: results of the Minimize Implants Maximize Outcomes study. <i>Spine Journal</i> , 2019, 19, S70-S71. | 1.3 | 3 |
| 44 | Computer-aided pedicle screw trajectory planning using CT-inferred bone density: A demonstration against surgical outcomes. <i>Medical Physics</i> , 2019, 46, 3543-3554. | 3.0 | 17 |
| 45 | Toward Automated 3D Spine Reconstruction from Biplanar Radiographs Using CNN for Statistical Spine Model Fitting. <i>IEEE Transactions on Medical Imaging</i> , 2019, 38, 2796-2806. | 8.9 | 43 |
| 46 | Restoration of normal pelvic balance from surgical reduction in high-grade spondylolisthesis. <i>European Spine Journal</i> , 2019, 28, 2087-2094. | 2.2 | 20 |
| 47 | Adolescent idiopathic scoliosis associated POC5 mutation impairs cell cycle, cilia length and centrosome protein interactions. <i>PLoS ONE</i> , 2019, 14, e0213269. | 2.5 | 25 |
| 48 | Predicting lowest hemoglobin level and risk of blood transfusion in spinal fusion surgery for adolescent idiopathic scoliosis. <i>European Spine Journal</i> , 2019, 28, 1342-1348. | 2.2 | 11 |
| 49 | MicroRNA Biomarkers in Cerebrospinal Fluid and Serum Reflect Injury Severity in Human Acute Traumatic Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2019, 36, 2358-2371. | 3.4 | 46 |
| 50 | 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 |
| 51 | L3 translation predicts when L3 is not distal enough for an "ideal" result in Lenke 5 curves. <i>European Spine Journal</i> , 2019, 28, 1349-1355. | 2.2 | 11 |
| 52 | 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 |
| 53 | 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 |
| 54 | Operative Versus Nonoperative Treatment for Adult Symptomatic Lumbar Scoliosis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019, 101, 338-352. | 3.0 | 110 |

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|----|---|-----|-----------|
| 55 | Pediatric Device Regulation: The Case of Anterior Vertebral Body Tethering. <i>Spine Deformity</i> , 2019, 7, 1019-1020. | 1.5 | 4 |
| 56 | Effect of Serious Adverse Events on Health-related Quality of Life Measures Following Surgery for Adult Symptomatic Lumbar Scoliosis. <i>Spine</i> , 2019, 44, 1211-1219. | 2.0 | 15 |
| 57 | Prevalence and natural history of scoliosis and associated congenital vertebral anomalies in patients operated for esophageal atresia with or without tracheoesophageal fistula. <i>Journal of Pediatric Surgery</i> , 2019, 54, 1308-1311. | 1.6 | 9 |
| 58 | 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 |
| 59 | A new ovine model of spine and chest wall deformity at birth with alteration of respiratory system mechanics and lung development: a feasibility study. <i>European Spine Journal</i> , 2019, 28, 114-120. | 2.2 | 2 |
| 60 | 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 |
| 61 | Anthropometry, Energy Metabolism and Nutritional Intake of Girls with Adolescent Idiopathic Scoliosis. <i>FASEB Journal</i> , 2019, 33, . | 0.5 | 0 |
| 62 | Mechanobiological analysis of porcine spines instrumented with intra-vertebral staples. <i>Journal of Musculoskeletal Neuronal Interactions</i> , 2019, 19, 13-20. | 0.1 | 0 |
| 63 | Reciprocal Changes in Sagittal Alignment With Operative Treatment of Adolescent Scheuermann Kyphosis—Prospective Evaluation of 96 Patients. <i>Spine Deformity</i> , 2018, 6, 177-184. | 1.5 | 18 |
| 64 | The importance of proximal femoral angle on sagittal balance and quality of life in children and adolescents with high-grade lumbosacral spondylolisthesis. <i>European Spine Journal</i> , 2018, 27, 2038-2043. | 2.2 | 9 |
| 65 | To distinguish flexible and rigid lumbar curve from MRI texture analysis in adolescent idiopathic scoliosis: A feasibility study. <i>Journal of Magnetic Resonance Imaging</i> , 2018, 48, 178-187. | 3.4 | 10 |
| 66 | Early Impact of Postoperative Bracing on Pain and Quality of Life After Posterior Instrumented Fusion for Lumbar Degenerative Conditions. <i>Spine</i> , 2018, 43, 155-160. | 2.0 | 20 |
| 67 | 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. <i>Spine Journal</i> , 2018, 18, 88-98. | 1.3 | 16 |
| 68 | Serious Adverse Events Significantly Reduce Patient-Reported Outcomes at 2-Year Follow-up. <i>Spine</i> , 2018, 43, 747-753. | 2.0 | 3 |
| 69 | 3D correction over 2 years with anterior vertebral body growth modulation: A finite element analysis of screw positioning, cable tensioning and postoperative functional activities. <i>Clinical Biomechanics</i> , 2018, 51, 26-33. | 1.2 | 32 |
| 70 | A Prospective, Multicenter Analysis of the Efficacy of Anterior Vertebral Body Tethering (AVBT) in the Treatment of Idiopathic Scoliosis. <i>Spine Deformity</i> , 2018, 6, 820. | 1.5 | 7 |
| 71 | Spatiotemporal Manifold Prediction Model for Anterior Vertebral Body Growth Modulation Surgery in Idiopathic Scoliosis. <i>Lecture Notes in Computer Science</i> , 2018, , 206-213. | 1.3 | 3 |
| 72 | Prediction of spinal curve progression in Adolescent Idiopathic Scoliosis using Random Forest regression. <i>Computers in Biology and Medicine</i> , 2018, 103, 34-43. | 7.0 | 27 |

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|----|--|-----|-----------|
| 73 | Computer-assisted pedicle screw placement planning: Towards clinical practice. , 2018, , . | | 9 |
| 74 | 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 |
| 75 | 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 |
| 76 | 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 |
| 77 | 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 |
| 78 | 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 |
| 79 | Automatic pedicles detection using convolutional neural network in a 3D spine reconstruction from biplanar radiographs. , 2018, , . | | 2 |
| 80 | Changes in growth plate extracellular matrix composition and biomechanics following in vitro static versus dynamic mechanical modulation. Journal of Musculoskeletal Neuronal Interactions, 2018, 18, 81-91. | 0.1 | 5 |
| 81 | 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 |
| 82 | A Targeted Proteomics Analysis of Cerebrospinal Fluid after Acute Human Spinal Cord Injury. Journal of Neurotrauma, 2017, 34, 2054-2068. | 3.4 | 30 |
| 83 | 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 |
| 84 | Porcine spine finite element model: a complementary tool to experimental scoliosis fusionless instrumentation. European Spine Journal, 2017, 26, 1610-1617. | 2.2 | 6 |
| 85 | 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 |
| 86 | Geometric Torsion in Adolescent Idiopathic Scoliosis. Spine, 2017, 42, E532-E538. | 2.0 | 4 |
| 87 | 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 |
| 88 | 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 |
| 89 | Retrospective Analysis of Congenital Scoliosis. Spine, 2017, 42, E841-E847. | 2.0 | 13 |
| 90 | A novel fully automatic measurement of apparent breast volume from trunk surface mesh. Medical Engineering and Physics, 2017, 41, 46-54. | 1.7 | 8 |

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|-----|---|-----|-----------|
| 91 | Oral Analgesics Utilization for Children With Musculoskeletal Injury (OUCH Trial): An RCT. <i>Pediatrics</i> , 2017, 140, . | 2.1 | 37 |
| 92 | Spinal cord perfusion pressure predicts neurologic recovery in acute spinal cord injury. <i>Neurology</i> , 2017, 89, 1660-1667. | 1.1 | 121 |
| 93 | Measurement Properties of the Scoliosis Research Society Outcomes Questionnaire in Adolescent Patients With Spondylolisthesis. <i>Spine</i> , 2017, 42, 1316-1321. | 2.0 | 14 |
| 94 | Développement et validation de la version canadienne-française de l'Échelle de Satisfaction des Adolescents de la gestion de la Douleur postopératoire " Scoliose idiopathique (SAD-S). <i>Canadian Journal of Pain</i> , 2017, 1, 50-60. | 1.7 | 0 |
| 95 | 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 |
| 96 | The effects of the three-dimensional deformity of adolescent idiopathic scoliosis on pulmonary function. <i>European Spine Journal</i> , 2017, 26, 1658-1664. | 2.2 | 58 |
| 97 | 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 |
| 98 | Application of an RGBD augmented Camera for minimally invasive scoliosis surgery assistance. <i>Healthcare Technology Letters</i> , 2017, 4, 179-183. | 3.3 | 1 |
| 99 | Validation of the scale on Satisfaction of Adolescents with Postoperative pain management-idiopathic Scoliosis (SAP-S). <i>Journal of Pain Research</i> , 2017, Volume 10, 137-143. | 2.0 | 6 |
| 100 | 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 |
| 101 | The effect of psychological interventions on the prevention of chronic pain in adults: a systematic review protocol. <i>Systematic Reviews</i> , 2017, 6, 190. | 5.3 | 10 |
| 102 | Assessment of Regional Bone Density in Fractured Vertebrae Using Quantitative Computed Tomography. <i>Asian Spine Journal</i> , 2017, 11, 57-62. | 2.0 | 6 |
| 103 | Experimental Model of Proximal Junctional Fracture after Multilevel Posterior Spinal Instrumentation. <i>BioMed Research International</i> , 2016, 2016, 1-7. | 1.9 | 1 |
| 104 | Patient Factors That Influence Decision Making. <i>Spine</i> , 2016, 41, E349-E358. | 2.0 | 18 |
| 105 | Novel Hemi-Staple for the Fusionless Correction of Pediatric Scoliosis. <i>Clinical Spine Surgery</i> , 2016, 29, 457-464. | 1.3 | 9 |
| 106 | Surgical Consent of Children and Guardians for the Treatment of Adolescent Idiopathic Scoliosis is Incompletely Informed. <i>Spine</i> , 2016, 41, 53-61. | 2.0 | 9 |
| 107 | Does the Acute Care Spinal Cord Injury Setting Predict the Occurrence of Pressure Ulcers at Arrival to Intensive Rehabilitation Centers?. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2016, 95, 300-308. | 1.4 | 17 |
| 108 | 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 |

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|-----|--|-----|-----------|
| 109 | Baseline Patient-Reported Outcomes Correlate Weakly With Radiographic Parameters. <i>Spine</i> , 2016, 41, 1701-1708. | 2.0 | 28 |
| 110 | Automatic spine and pelvis detection in frontal X-rays using deep neural networks for patch displacement learning. , 2016, , . | | 15 |
| 111 | Local Epiphyseal Growth Modulation for the Early Treatment of Progressive Scoliosis. <i>Spine</i> , 2016, 41, E1009-E1015. | 2.0 | 1 |
| 112 | Postoperative 3D spine reconstruction by navigating partitioning manifolds. <i>Medical Physics</i> , 2016, 43, 1045-1056. | 3.0 | 7 |
| 113 | Parallel Metabolomic Profiling of Cerebrospinal Fluid and Serum for Identifying Biomarkers of Injury Severity after Acute Human Spinal Cord Injury. <i>Scientific Reports</i> , 2016, 6, 38718. | 3.3 | 38 |
| 114 | Report of the 2015 SRS Traveling Fellowship. <i>Spine Deformity</i> , 2016, 4, 173-181. | 1.5 | 0 |
| 115 | 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 |
| 116 | Posterior convex release and interbody fusion for thoracic scoliosis: technical note. <i>Journal of Neurosurgery: Spine</i> , 2016, 25, 357-365. | 1.7 | 4 |
| 117 | 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 |
| 118 | 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 |
| 119 | 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 |
| 120 | Sparse and multi-object pose+shape modeling of the three-dimensional scoliotic spine. , 2016, , . | | 4 |
| 121 | Geometric Torsion in Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2016, 41, 1903-1907. | 2.0 | 6 |
| 122 | Growth plate cartilage shows different strain patterns in response to static versus dynamic mechanical modulation. <i>Biomechanics and Modeling in Mechanobiology</i> , 2016, 15, 933-946. | 2.8 | 10 |
| 123 | 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 |
| 124 | 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 |
| 125 | Trunk imbalance in adolescent idiopathic scoliosis. <i>Spine Journal</i> , 2016, 16, 687-693. | 1.3 | 17 |
| 126 | Do Patients with Complete Spinal Cord Injury Benefit from Early Surgical Decompression? Analysis of Neurological Improvement in a Prospective Cohort Study. <i>Journal of Neurotrauma</i> , 2016, 33, 301-306. | 3.4 | 72 |

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|-----|--|-----|-----------|
| 127 | Biomechanical analysis of Ponte and pedicle subtraction osteotomies for the surgical correction of kyphotic deformities. <i>European Spine Journal</i> , 2016, 25, 2452-2460. | 2.2 | 13 |
| 128 | Biomechanics of high-grade spondylolisthesis with and without reduction. <i>Medical and Biological Engineering and Computing</i> , 2016, 54, 619-628. | 2.8 | 17 |
| 129 | Classification of Progressive and Non-progressive Scoliosis Patients Using Discriminant Manifolds. <i>Lecture Notes in Computer Science</i> , 2016, , 135-145. | 1.3 | 0 |
| 130 | Patient-specific anisotropic model of human trunk based on MR data. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2015, 31, e02724. | 2.1 | 0 |
| 131 | Compressive mechanical modulation alters the viability of growth plate chondrocytes in vitro. <i>Journal of Orthopaedic Research</i> , 2015, 33, 1587-1593. | 2.3 | 12 |
| 132 | Spondylolisthesis, Sacro-Pelvic Morphology, and Orientation in Young Gymnasts. <i>Journal of Spinal Disorders and Techniques</i> , 2015, 28, E358-E364. | 1.9 | 7 |
| 133 | Effect of older age on treatment decisions and outcomes among patients with traumatic spinal cord injury. <i>Cmaj</i> , 2015, 187, 873-880. | 2.0 | 51 |
| 134 | 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 |
| 135 | A physically based trunk soft tissue modeling for scoliosis surgery planning systems. <i>Computerized Medical Imaging and Graphics</i> , 2015, 40, 217-228. | 5.8 | 4 |
| 136 | The changing demographics of traumatic spinal cord injury: An 11-year study of 831 patients. <i>Journal of Spinal Cord Medicine</i> , 2015, 38, 214-223. | 1.4 | 86 |
| 137 | A Replication Study for Association of 53 Single Nucleotide Polymorphisms in ScolioScore Test With Adolescent Idiopathic Scoliosis in French-Canadian Population. <i>Spine</i> , 2015, 40, 537-543. | 2.0 | 27 |
| 138 | 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 |
| 139 | Biomechanical Simulation and Analysis of Scoliosis Correction Using a Fusionless Intravertebral Epiphyseal Device. <i>Spine</i> , 2015, 40, 369-376. | 2.0 | 16 |
| 140 | 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 |
| 141 | The Reason 4 Rods to the Pelvis Provides a Stable Revision Surgery: A Finite Element Analysis Study. <i>Spine Journal</i> , 2015, 15, S258. | 1.3 | 0 |
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