

Patrick J Cahill

List of Publications by Year in descending order

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Version: 2024-02-01

116
papers

1,499
citations

430874

18
h-index

395702

33
g-index

118
all docs

118
docs citations

118
times ranked

1098
citing authors

#	ARTICLE	IF	CITATIONS
1	Autofusion in the Immature Spine Treated With Growing Rods. <i>Spine</i> , 2010, 35, E1199-E1203.	2.0	155
2	The Effect of Surgeon Experience on Outcomes of Surgery for Adolescent Idiopathic Scoliosis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 1333-1339.	3.0	114
3	Multicenter Comparison of 3D Spinal Measurements Using Surface Topography With Those From Conventional Radiography. <i>Spine Deformity</i> , 2016, 4, 98-103.	1.5	70
4	Major perioperative complications after spine surgery in patients with cerebral palsy: assessment of risk factors. <i>European Spine Journal</i> , 2016, 25, 795-800.	2.2	52
5	Evolution of Surgery for Adolescent Idiopathic Scoliosis Over 20 Years. <i>Spine</i> , 2018, 43, 402-410.	2.0	52
6	Characterizing the differences between the 2D and 3D measurements of spine in adolescent idiopathic scoliosis. <i>European Spine Journal</i> , 2016, 25, 3137-3145.	2.2	47
7	The Use of Finite Element Models to Assist Understanding and Treatment For Scoliosis: A Review Paper. <i>Spine Deformity</i> , 2014, 2, 10-27.	1.5	44
8	Pediatric Cervical Spine Clearance. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019, 101, e1.	3.0	42
9	Thoracic Insufficiency Syndrome. <i>Current Problems in Pediatric and Adolescent Health Care</i> , 2016, 46, 72-97.	1.7	38
10	Ten-Year Outcomes of Selective Fusions for Adolescent Idiopathic Scoliosis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019, 101, 761-770.	3.0	37
11	Do Ponte Osteotomies Enhance Correction in Adolescent Idiopathic Scoliosis? An Analysis of 191 Lenke 1A and 1B Curves. <i>Spine Deformity</i> , 2015, 3, 483-488.	1.5	36
12	Unplanned Return to the Operating Room in Patients With Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2013, 38, 1842-1847.	2.0	35
13	Serial Casting for Infantile Idiopathic Scoliosis: Radiographic Outcomes and Factors Associated With Response to Treatment. <i>Journal of Pediatric Orthopaedics</i> , 2017, 37, 311-316.	1.2	34
14	Reversible Intraoperative Neurophysiologic Monitoring Alerts in Patients Undergoing Arthrodesis for Adolescent Idiopathic Scoliosis. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 1478-1483.	3.0	27
15	Bi-planar spinal stereoradiography of adolescent idiopathic scoliosis: considerations in 3D alignment and functional balance. <i>European Spine Journal</i> , 2016, 25, 3234-3241.	2.2	23
16	Complications, Reoperations, and Mid-Term Outcomes Following Anterior Vertebral Body Tethering Versus Posterior Spinal Fusion. <i>JBJS Open Access</i> , 2021, 6, .	1.5	23
17	Vertebral Body Stapling versus Bracing for Patients with High-Risk Moderate Idiopathic Scoliosis. <i>BioMed Research International</i> , 2015, 2015, 1-7.	1.9	22
18	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

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19	Surgical aspects of spinal growth modulation in scoliosis correction. Instructional Course Lectures, 2014, 63, 335-44.	0.2	21
20	Expert Consensus for Early Onset Scoliosis Surgery. Journal of Pediatric Orthopaedics, 2020, 40, e621-e628.	1.2	19
21	Relationships Between the Axial Derotation of the Lower Instrumented Vertebra and Uninstrumented Lumbar Curve Correction: Radiographic Outcome in Lenke 1 Adolescent Idiopathic Scoliosis With a Minimum 2-Year Follow-up. Journal of Pediatric Orthopaedics, 2018, 38, e194-e201.	1.2	18
22	Reciprocal Changes in Sagittal Alignment With Operative Treatment of Adolescent Scheuermann Kyphosis—Prospective Evaluation of 96 Patients. Spine Deformity, 2018, 6, 177-184.	1.5	18
23	Quality of Life Improvement Following Surgery in Adolescent Spinal Deformity Patients: A Comparison Between Scheuermann Kyphosis and Adolescent Idiopathic Scoliosis*. Spine Deformity, 2018, 6, 676-683.	1.5	18
24	Os Odontoideum in Children. Journal of Bone and Joint Surgery - Series A, 2019, 101, 1750-1760.	3.0	18
25	Factors associated with spinal fusion after posterior fossa decompression in pediatric patients with Chiari I malformation and scoliosis. Journal of Neurosurgery: Pediatrics, 2016, 18, 737-743.	1.3	17
26	Youth and Experience: The Effect of Surgeon Experience on Outcomes in Cerebral Palsy Scoliosis Surgery. Spine Deformity, 2018, 6, 54-59.	1.5	17
27	Assessment of Proximal Junctional Kyphosis and Shoulder Balance With Proximal Screws versus Hooks in Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis. Spine, 2018, 43, E1322-E1328.	2.0	17
28	Major complications following surgical correction of spine deformity in 257 patients with cerebral palsy. Spine Deformity, 2020, 8, 1305-1312.	1.5	17
29	Unplanned return to OR (UPROR) for children with early onset scoliosis (EOS): a comprehensive evaluation of all diagnoses and instrumentation strategies. Spine Deformity, 2020, 8, 295-302.	1.5	17
30	Post-operative fever in orthopaedic surgery: How effective is the "fever workup"? Journal of Orthopaedic Surgery, 2017, 25, 230949901772795.	1.0	15
31	Part 1. Review and meta-analysis of studies on modulation of longitudinal bone growth and growth plate activity: A macro-scale perspective. Journal of Orthopaedic Research, 2021, 39, 907-918.	2.3	15
32	The classification of scoliosis braces developed by SOSORT with SRS, ISPO, and POSNA and approved by ESPRM. European Spine Journal, 2022, 31, 980-989.	2.2	15
33	Surgeon and Caregiver Agreement on the Goals and Indications for Scoliosis Surgery in Children With Cerebral Palsy. Spine Deformity, 2019, 7, 304-311.	1.5	13
34	Awake serial body casting for the management of infantile idiopathic scoliosis: is general anesthesia necessary?. Spine Deformity, 2020, 8, 1109-1115.	1.5	13
35	Two for One: A Change in Hand Positioning During Low-Dose Spinal Stereoradiography Allows for Concurrent, Reliable Sanders Skeletal Maturity Staging. Spine Deformity, 2018, 6, 391-396.	1.5	13
36	Intraoperative Traction May Be a Viable Alternative to Anterior Surgery in Cerebral Palsy Scoliosis >100 Degrees. Journal of Pediatric Orthopaedics, 2018, 38, e278-e284.	1.2	12

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37	Impact of growth friendly interventions on spine and pulmonary outcomes of patients with spinal muscular atrophy. <i>European Spine Journal</i> , 2021, 30, 768-774.	2.2	12
38	Timing of Changes in Three-Dimensional Spinal Parameters After Selective Thoracic Fusion in Lenke 1 Adolescent Idiopathic Scoliosis: Two-Year Follow-up. <i>Spine Deformity</i> , 2017, 5, 409-415.	1.5	11
39	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
40	Sagittal Spinopelvic Parameters of Young Children With Scoliosis. <i>Spine Deformity</i> , 2013, 1, 343-347.	1.5	10
41	Factors Predictive of Outcomes in Vertebral Body Stapling for Idiopathic Scoliosis. <i>Spine Deformity</i> , 2018, 6, 28-37.	1.5	10
42	The Impact of Posterior Spinal Fusion (PSF) on Coronal Balance in Adolescent Idiopathic Scoliosis (AIS): A New Classification and Trends in the Postoperative Period. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, e788-e793.	1.2	10
43	Could have tethered: predicting the proportion of scoliosis patients most appropriate for thoracic anterior spinal tethering. <i>Spine Deformity</i> , 2021, 9, 1005-1012.	1.5	10
44	Serial Casting in Neuromuscular and Syndromic Early-onset Scoliosis (EOS) Can Delay Surgery Over 2 Years. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, e772-e779.	1.2	9
45	Growth-friendly surgery results in more growth but a higher complication rate and unplanned returns to the operating room compared to single fusion in neuromuscular early-onset scoliosis: a multicenter retrospective cohort study. <i>Spine Deformity</i> , 2021, 9, 851-858.	1.5	9
46	Restoration of Thoracic Kyphosis in Adolescent Idiopathic Scoliosis Over a Twenty-year Period: Are We Getting Better?. <i>Spine</i> , 2020, 45, 1625-1633.	2.0	9
47	Factors affecting the outcome in appearance of AIS surgery in terms of the minimal clinically important difference. <i>European Spine Journal</i> , 2017, 26, 1782-1788.	2.2	8
48	Do All Patients With Cerebral Palsy Require Postoperative Intensive Care Admission After Spinal Fusion?. <i>Spine Deformity</i> , 2019, 7, 112-117.	1.5	8
49	Morphology and growth of the pediatric lumbar vertebrae. <i>Spine Journal</i> , 2021, 21, 682-697.	1.3	8
50	Thoracic Quantitative Dynamic MRI to Understand Developmental Changes in Normal Ventilatory Dynamics. <i>Chest</i> , 2021, 159, 712-723.	0.8	8
51	Part 2. Review and meta-analysis of studies on modulation of longitudinal bone growth and growth plate activity: A micro-scale perspective. <i>Journal of Orthopaedic Research</i> , 2021, 39, 919-928.	2.3	8
52	To tether or fuse? Significant equipoise remains in treatment recommendations for idiopathic scoliosis. <i>Spine Deformity</i> , 2022, 10, 763-773.	1.5	8
53	Agreement Between Manual and Computerized Designation of Neutral Vertebra in Idiopathic Scoliosis. <i>Spine Deformity</i> , 2018, 6, 644-650.	1.5	7
54	Thoracic Lordosis, Especially in Males, Increases Blood Loss in Adolescent Idiopathic Scoliosis. <i>Journal of Pediatric Orthopaedics</i> , 2019, 39, e201-e204.	1.2	7

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55	Improvement of Pulmonary Function Measured by Patient-reported Outcomes in Patients With Spinal Muscular Atrophy After Growth-friendly Instrumentation. <i>Journal of Pediatric Orthopaedics</i> , 2021, 41, 1-5.	1.2	7
56	Releasing the tether: Weight normalization following corrective spinal fusion in cerebral palsy. <i>Journal of Orthopaedic Surgery</i> , 2018, 26, 230949901878255.	1.0	6
57	How Often Do You Lengthen? A Physician Survey on Lengthening Practice for Prosthetic Rib Devices. <i>Spine Deformity</i> , 2018, 6, 473-477.	1.5	6
58	The Effect of the Level of Training of the First Assistant on the Outcomes of Adolescent Idiopathic Scoliosis Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2019, 101, e23.	3.0	6
59	Thoracic vertebral morphology in normal and scoliosis deformity in skeletally immature rabbits: A Longitudinal study. <i>JOR Spine</i> , 2020, 3, e1118.	3.2	6
60	BMI change following spinal fusion for neuromuscular scoliosis surgery. <i>Spine Deformity</i> , 2020, 8, 1081-1087.	1.5	6
61	Correlation between surgical site infection and classification of early onset scoliosis (C-EOS) in patients managed by rib-based distraction instrumentation. <i>Spine Deformity</i> , 2020, 8, 787-792.	1.5	6
62	V-GelÂ® Guided Endotracheal Intubation in Rabbits. <i>Frontiers in Veterinary Science</i> , 2021, 8, 684624.	2.2	6
63	Management and outcomes of scoliosis in children with congenital diaphragmatic hernia. <i>Journal of Pediatric Surgery</i> , 2016, 51, 1921-1925.	1.6	5
64	Factors associated with surgical approach and outcomes in cerebral palsy scoliosis. <i>European Spine Journal</i> , 2019, 28, 567-580.	2.2	5
65	The Role of Cross-Links in Posterior Spinal Fusion for Cerebral Palsy-Related Scoliosis. <i>Spine</i> , 2019, 44, E1256-E1263.	2.0	5
66	What's Important: Managing the Impact of Coronavirus on Pediatric Spine Surgery. <i>Journal of Bone and Joint Surgery - Series A</i> , 2020, 102, e94.	3.0	5
67	Sinister! The high pre-op left shoulder is less likely to be radiographically balanced at 2 years post-op. <i>Spine Deformity</i> , 2021, 9, 451-460.	1.5	5
68	Intra-operative computed tomography guided navigation for pediatric pelvic instrumentation: A technique guide. <i>World Journal of Orthopedics</i> , 2018, 9, 185-189.	1.8	5
69	4D image construction from free-breathing MRI slice acquisitions of the thorax based on a concept of flux. , 2020, 11312, .		5
70	Development of a Finite Element Model of the Pediatric Thoracic and Lumbar Spine, Ribcage, and Pelvis With Orthotropic Region-Specific Vertebral Growth. <i>Journal of Biomechanical Engineering</i> , 2022, 144, .	1.3	5
71	Hemoglobin Levels Pre- and Posttreatment as a Surrogate for Disease Severity in Early-Onset Scoliosis. <i>Spine Deformity</i> , 2019, 7, 641-646.	1.5	4
72	Prolonged Postoperative Intubation After Spinal Fusion in Cerebral Palsy: Are There Modifiable Risk Factors and Associated Consequences?. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, 431-437.	1.2	4

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73	Evaluation and Treatment of Early-Onset Scoliosis. JBSJ Reviews, 2020, 8, e20.00040-e20.00040.	2.0	4
74	Complete paraplegia 36â€‰%h after attempted posterior spinal fusion for severe adolescent idiopathic scoliosis: a case report. Spinal Cord Series and Cases, 2021, 7, 33.	0.6	4
75	OFx: A method of 4D image construction from free-breathing non-gated MRI slice acquisitions of the thorax via optical flux. Medical Image Analysis, 2021, 72, 102088.	11.6	4
76	Whatâ€™s New in Pediatric Orthopaedic Quality, Safety, and Value? A Systematic Review With Results of the 2016 POSNA Quality, Safety, and Value Initiative (QSVI) Challenge. Journal of Pediatric Orthopaedics, 2018, 38, e646-e651.	1.2	3
77	Comprehensive Wound Risk Stratification of Rib-Based Distraction Instrumentation Procedures. Spine Deformity, 2019, 7, 971-978.	1.5	3
78	American football is the youth sporting activity most commonly associated with acute vertebral fractures. Physician and Sportsmedicine, 2021, 49, 348-354.	2.1	3
79	Lengthening Less Than 7 Months Leads to Greater Spinal Height Gain With Rib-based Distraction. Journal of Pediatric Orthopaedics, 2020, 40, e747-e752.	1.2	3
80	A seat at the table: an invitation to the SRS podium via the study group. Spine Deformity, 2021, 9, 905-911.	1.5	3
81	Does nutrition consultation in the year leading up to neuromuscular scoliosis surgery result in significant weight gain, or just a larger magnitude curve?. Spine Deformity, 2022, 10, 151-158.	1.5	3
82	Concussion in Sports. Journal of the American Academy of Orthopaedic Surgeons, The, 2016, 24, e193-e201.	2.5	3
83	Long-term Patient Perception Following Surgery for Adolescent Idiopathic Scoliosis if Dissatisfied at 2-year Follow-up. Spine, 2021, 46, 507-511.	2.0	3
84	â€œWill I Need a Brace?â€ likelihood of curve progression to bracing range in adolescent idiopathic scoliosis. Spine Deformity, 2022, 10, 537-542.	1.5	3
85	Does the presence of programmable implanted devices in patients with early onset scoliosis alter typical operative and postoperative practices? A survey of spine surgeons. Spine Deformity, 2022, , 1.	1.5	3
86	Minimally Invasive Lateral Interbody Fusion in the Treatment of Scoliosis Associated with Myelomeningocele. Surgical Technology International, 2015, 26, 371-5.	0.2	3
87	Is There a Role for the 5-Degree Rule in Adolescent Idiopathic Scoliosis?. Journal of Pediatric Orthopaedics, 2014, 34, 194-201.	1.2	2
88	Utility of Perioperative Laboratory Tests in Pediatric Patients Undergoing Spinal Fusion for Scoliosis. Spine Deformity, 2019, 7, 875-882.	1.5	2
89	Do seizures compromise correction maintenance after spinal fusion in cerebral palsy scoliosis?. Journal of Pediatric Orthopaedics Part B, 2020, 29, 538-541.	0.6	2
90	Interobserver and intraobserver reliability of determining the deformity angular ratio in severe pediatric deformity curves. Spine Deformity, 2021, 9, 435-440.	1.5	2

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91	Lung parenchymal characterization via thoracic dynamic MRI in normal children and pediatric patients with TIS. , 2021, 11598, .		2
92	Quantifying lung and diaphragm morphology using radiographs in normative pediatric subjects, and predicting CTâ€derived lung volume. Pediatric Pulmonology, 2021, 56, 2177-2185.	2.0	2
93	Inter- and intra-rater reliability and accuracy of Sanders Skeletal Maturity Staging System when used by surgeons performing vertebral body tethering. Spine Deformity, 2022, 10, 97-106.	1.5	2
94	Pelvic fixation is not always necessary in children with cerebral palsy scoliosis treated with growth-friendly instrumentation. Spine Deformity, 2022, , 1.	1.5	2
95	Preoperative factors associated with optimal outcomes of selective thoracic fusion at 5Âyears. Spine Deformity, 2022, 10, 1117-1122.	1.5	2
96	Prophylactic Decompression for Cervical Stenosis in Jeune Syndrome. Spine, 2020, 45, E781-E786.	2.0	1
97	Results of Conservative and Surgical Management in Children with Idiopathic and Nonidiopathic Os Odontoideum. World Neurosurgery, 2021, 147, e324-e333.	1.3	1
98	Estimation of the dynamic volume of each lung via rapid limited-slice dynamic MRI. , 2021, 11595, .		1
99	Residual lumbar hyperlordosis is associated with worsened hip status 5 years after scoliosis correction in non-ambulant patients with cerebral palsy. Spine Deformity, 2021, 9, 1125-1136.	1.5	1
100	Outcomes and Complications in Management of Congenital Myopathy Early-Onset Scoliosis. Journal of Pediatric Orthopaedics, 2021, Publish Ahead of Print, 531-536.	1.2	1
101	Myelopathic Patients Undergoing Severe Pediatric Spinal Deformity Surgery Can Improve Neurologic Function to That of Non-Myelopathic Patients by 1-Year Postoperative. Global Spine Journal, 2021, , 219256822110348.	2.3	1
102	Evidence Behind Upper Instrumented Vertebra Selection in Adolescent Idiopathic Scoliosis. JBJS Reviews, 2021, 9, .	2.0	1
103	Automatic labeling of respiratory phases and detection of abnormal respiratory signals in free-breathing thoracic dynamic MR image acquisitions based on deep learning. , 2020, 11315, .		1
104	Does ventilator use status correlate with quality of life in patients with early-onset scoliosis treated with rib-based growing system implantation?. Spine Deformity, 2022, 10, 943-950.	1.5	1
105	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. Journal of Clinical Medicine, 2022, 11, 1545.	2.4	1
106	Weight gain and gastrostomy tube safety during serial body casting for early onset scoliosis. Spine Deformity, 2022, 10, 1197-1201.	1.5	1
107	Report of the 2015 SRS Traveling Fellowship. Spine Deformity, 2016, 4, 173-181.	1.5	0
108	Concomitant procedures with early-onset scoliosis rib-based surgeries. Spine Deformity, 2021, 9, 1161-1167.	1.5	0

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109	Evaluation of shoulder balance in early onset scoliosis after definitive fusion and comparison with adolescent idiopathic scoliosis shoulder balance. Spine Deformity, 2021, , 1.	1.5	0
110	A Minimally Interactive Method for Labeling Respiratory Phases in Free-Breathing Thoracic Dynamic MRI for Constructing 4D Images. IEEE Transactions on Biomedical Engineering, 2022, 69, 1424-1434.	4.2	0
111	Outcomes of Operatively Managed Lumbar and Sacral Facet Fractures in Pediatric Athletes. Journal of Pediatric Orthopaedics, 2021, Publish Ahead of Print, e45-e49.	1.2	0
112	Adolescent Scoliosis. , 2019, , 439-454.		0
113	Hand Bone Age Radiography: Comparison Between Slot-scanning and Conventional Techniques. Journal of Pediatric Orthopaedics, 2021, 41, e167-e173.	1.2	0
114	Concussion in Sports: What Do Orthopaedic Surgeons Need to Know?. Instructional Course Lectures, 2017, 66, 557-566.	0.2	0
115	Surgical and Nonsurgical Factors Associated with Salvaging Exposed Vertical Expandable Prosthetic Titanium Rib Hardware. Plastic and Reconstructive Surgery, 2022, 149, 485e-495e.	1.4	0
116	Risk of ventriculoperitoneal shunt malfunction in operatively treated early onset spinal deformity. Spine Deformity, 0, , .	1.5	0