

Eric C Parent

List of Publications by Year in descending order

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84
papers

3,665
citations

159585
30
h-index

138484
58
g-index

84
all docs

84
docs citations

84
times ranked

3280
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting Upper Quadrant Musculoskeletal Injuries in the Military: A Cohort Study. <i>Medicine and Science in Sports and Exercise</i> , 2022, 54, 337-344.	0.4	7
2	3D ultrasound navigation system for screw insertion in posterior spine surgery: a phantom study. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2022, 17, 271-281.	2.8	5
3	Convolutional Neural Network to Segment Laminae on 3D Ultrasound Spinal Images to Assist Cobb Angle Measurement. <i>Annals of Biomedical Engineering</i> , 2022, 50, 401-412.	2.5	4
4	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
5	Nonoperative management of adolescent idiopathic scoliosis (AIS) using braces. <i>Prosthetics and Orthotics International</i> , 2022, Publish Ahead of Print, .	1.0	5
6	Development and Evaluation of CT-to-3D Ultrasound Image Registration Algorithm in Vertebral Phantoms for Spine Surgery. <i>Annals of Biomedical Engineering</i> , 2021, 49, 310-321.	2.5	9
7	The effects of axial loading on the morphometric and T2 characteristics of lumbar discs in relation to disc degeneration. <i>Clinical Biomechanics</i> , 2021, 83, 105291.	1.2	2
8	Accuracy of the Å–rebro Musculoskeletal Pain Questionnaire and Work Assessment Triage Tool for selecting interventions in workers with spinal conditions. <i>Journal of Back and Musculoskeletal Rehabilitation</i> , 2021, 34, 355-362.	1.1	3
9	Reliability of measurements of a reflection coefficient index to indicate spinal bone strength on adolescents with idiopathic scoliosis (AIS): a pilot study. <i>European Spine Journal</i> , 2021, 30, 1888-1895.	2.2	0
10	The Training Characteristics of Recreational-Level Triathletes: Influence on Fatigue and Health. <i>Sports</i> , 2021, 9, 94.	1.7	2
11	Recommendations for Reporting on Rehabilitation Interventions. <i>American Journal of Physical Medicine and Rehabilitation</i> , 2021, 100, 5-16.	1.4	20
12	Use of machine learning to select texture features in investigating the effects of axial loading on T2-maps from magnetic resonance imaging of the lumbar discs. <i>European Spine Journal</i> , 2021, , 1.	2.2	0
13	Does image guidance decrease pedicle screw-related complications in surgical treatment of adolescent idiopathic scoliosis: a systematic review update and meta-analysis. <i>European Spine Journal</i> , 2020, 29, 694-716.	2.2	22
14	Could compression and traction loading improve the ability of magnetic resonance imaging to identify findings related to low back pain?. <i>Musculoskeletal Science and Practice</i> , 2020, 50, 102250.	1.3	4
15	Texture analysis in the classification of T2-weighted magnetic resonance images in persons with and without low back pain. <i>Journal of Orthopaedic Research</i> , 2020, 39, 2187-2196.	2.3	10
16	Establishing consensus on the best practice guidelines for the use of bracing in adolescent idiopathic scoliosis. <i>Spine Deformity</i> , 2020, 8, 597-604.	1.5	38
17	Positional and Orientational Accuracy of 3-D Ultrasound Navigation System on Vertebral Phantom Study. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 6412-6419.	4.7	13
18	Cold air exercise screening for exercise induced bronchoconstriction in cold weather athletes. <i>Respiratory Physiology and Neurobiology</i> , 2019, 269, 103262.	1.6	19

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19	Patients with adolescent idiopathic scoliosis perceive positive improvements regardless of change in the Cobb angle “ Results from a randomized controlled trial comparing a 6-month Schroth intervention added to standard care and standard care alone. SOSORT 2018 Award winner. BMC Musculoskeletal Disorders, 2019, 20, 319.	1.9	36
20	Reliability of a new loaded rolling wheel system for measuring spinal stiffness in asymptomatic participants. BMC Musculoskeletal Disorders, 2019, 20, 176.	1.9	13
21	Customized k-nearest neighbourhood analysis in the management of adolescent idiopathic scoliosis using 3D markerless asymmetry analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 696-705.	1.6	15
22	Differential patient responses to spinal manipulative therapy and their relation to spinal degeneration and post-treatment changes in disc diffusion. European Spine Journal, 2019, 28, 259-269.	2.2	9
23	Reconstruction and positional accuracy of 3D ultrasound on vertebral phantoms for adolescent idiopathic scoliosis spinal surgery. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 427-439.	2.8	6
24	Long-Term Athlete Development. Journal of Strength and Conditioning Research, 2019, Publish Ahead of Print, 3459-3465.	2.1	1
25	MRI evaluation of the effects of extension exercises on the disc fluid content and location of the centroid of the fluid distribution. Musculoskeletal Science and Practice, 2018, 33, 67-70.	1.3	7
26	Reliability and validity of lumbar disc height quantification methods using magnetic resonance images. Biomedizinische Technik, 2018, 64, 111-117.	0.8	8
27	Is the location of the signal intensity weighted centroid a reliable measurement of fluid displacement within the disc?. Biomedizinische Technik, 2018, 63, 453-460.	0.8	12
28	3D Markerless asymmetry analysis in the management of adolescent idiopathic scoliosis. BMC Musculoskeletal Disorders, 2018, 19, 385.	1.9	17
29	Effect of stabilization exercise on back pain, disability and quality of life in adults with scoliosis: a systematic review. European Journal of Physical and Rehabilitation Medicine, 2018, 54, 647-653.	2.2	17
30	2016 SOSORT guidelines: orthopaedic and rehabilitation treatment of idiopathic scoliosis during growth. Scoliosis and Spinal Disorders, 2018, 13, 3.	2.3	503
31	Test-retest reliability of posture measurements in adolescents with idiopathic scoliosis. Spine Journal, 2018, 18, 2247-2258.	1.3	7
32	The Effect of Different Training Loads on the Lung Health of Competitive Youth Swimmers. International Journal of Exercise Science, 2018, 11, 999-1018.	0.5	5
33	Intraoperative image guidance compared with free-hand methods in adolescent idiopathic scoliosis posterior spinal surgery: a systematic review on screw-related complications and breach rates. Spine Journal, 2017, 17, 1215-1229.	1.3	72
34	Surface Topography Classification Trees for Assessing Severity and Monitoring Progression in Adolescent Idiopathic Scoliosis. Spine, 2017, 42, E781-E787.	2.0	12
35	Schroth physiotherapeutic scoliosis-specific exercises for adolescent idiopathic scoliosis: how many patients require treatment to prevent one deterioration? “ results from a randomized controlled trial - “SOSORT 2017 Award Winner” Scoliosis and Spinal Disorders, 2017, 12, 26.	2.3	22
36	Does experimental low back pain change posteroanterior lumbar spinal stiffness and trunk muscle activity? A randomized crossover study. Clinical Biomechanics, 2016, 34, 45-52.	1.2	30

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37	Immediate effects of scoliosis-specific corrective exercises on the Cobb angle after one week and after one year of practice. <i>Scoliosis and Spinal Disorders</i> , 2016, 11, 36.	2.3	5
38	Schroth Physiotherapeutic Scoliosis-Specific Exercises Added to the Standard of Care Lead to Better Cobb Angle Outcomes in Adolescents with Idiopathic Scoliosis – an Assessor and Statistician Blinded Randomized Controlled Trial. <i>PLoS ONE</i> , 2016, 11, e0168746.	2.5	87
39	Do Participants With Low Back Pain Who Respond to Spinal Manipulative Therapy Differ Biomechanically From Nonresponders, Untreated Controls or Asymptomatic Controls?. <i>Spine</i> , 2015, 40, 1329-1337.	2.0	63
40	The effect of Schroth exercises added to the standard of care on the quality of life and muscle endurance in adolescents with idiopathic scoliosis – an assessor and statistician blinded randomized controlled trial: –SOSORT 2015 Award Winner–. <i>Scoliosis</i> , 2015, 10, 24.	0.4	106
41	Asymmetry Assessment Using Surface Topography in Healthy Adolescents. <i>Symmetry</i> , 2015, 7, 1436-1454.	2.2	7
42	Monitoring for idiopathic scoliosis curve progression using surface topography asymmetry analysis of the torso in adolescents. <i>Spine Journal</i> , 2015, 15, 743-751.	1.3	45
43	Correlation Between a Novel Surface Topography Asymmetry Analysis and Radiographic Data in Scoliosis. <i>Spine Deformity</i> , 2015, 3, 303-311.	1.5	24
44	Predicting success or failure of brace treatment for adolescents with idiopathic scoliosis. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 1001-1009.	2.8	18
45	Correlation between Cobb angle, spinous process angle (SPA) and apical vertebrae rotation (AVR) on posteroanterior radiographs in adolescent idiopathic scoliosis (AIS). <i>European Spine Journal</i> , 2015, 24, 306-312.	2.2	27
46	Assessing asymmetry using reflection and rotoinversion in biomedical engineering applications. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 523-529.	1.8	19
47	Letter to the Editor concerning: –Active self-correction and task-oriented exercises reduce spinal deformity and improve quality of life in subjects with mild adolescent idiopathic scoliosis. Results of a randomised controlled trial– by Monticone M, Ambrosini E, Cazzaniga D, Rocca B, Ferrante S (2014). <i>Eur Spine J</i> ; DOI:10.1007/s00586-014-3241-y. <i>European Spine Journal</i> , 2014, 23, 2218-2220.	2.2	8
48	Surface topography asymmetry maps categorizing external deformity in scoliosis. <i>Spine Journal</i> , 2014, 14, 973-983.e2.	1.3	47
49	Intra- and Interobserver Reliability of the Cobb Angle – Vertebral Rotation Angle – Spinous Process Angle for Adolescent Idiopathic Scoliosis. <i>Spine Deformity</i> , 2014, 2, 168-175.	1.5	8
50	Do Changes in Transversus Abdominis and Lumbar Multifidus During Conservative Treatment Explain Changes in Clinical Outcomes Related to Nonspecific Low Back Pain? A Systematic Review. <i>Journal of Pain</i> , 2014, 15, 377.e1-377.e35.	1.4	53
51	Effect of Schroth exercises on curve characteristics and clinical outcomes in adolescent idiopathic scoliosis: protocol for a multicentre randomised controlled trial. <i>Journal of Physiotherapy</i> , 2014, 60, 234.	1.7	28
52	Toward maximum-predictive-value classification. <i>Pattern Recognition</i> , 2014, 47, 3949-3958.	8.1	4
53	Leg Dominance May Not Be a Predictor of Asymmetry in Peak Joint Moments and Ground Reaction Forces During Sit-to-Stand Movements. <i>Journal of Applied Biomechanics</i> , 2014, 30, 179-183.	0.8	7
54	Do various baseline characteristics of transversus abdominis and lumbar multifidus predict clinical outcomes in nonspecific low back pain? A systematic review. <i>Pain</i> , 2013, 154, 2589-2602.	4.2	55

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55	Ultrasound image measurements of erector spinae muscle thickness at four spinal levels in adolescents with idiopathic scoliosis: reliability and concave-convex comparison. <i>Scoliosis</i> , 2013, 8, .	0.4	1
56	Within- and between-day reliability of spinal stiffness measurements obtained using a computer controlled mechanical indenter in individuals with and without low back pain. <i>Manual Therapy</i> , 2013, 18, 395-402.	1.6	38
57	Characterizing asymmetry across the whole sit to stand movement in healthy participants. <i>Journal of Biomechanics</i> , 2013, 46, 2730-2735.	2.1	14
58	Reliability of 2 Ultrasonic Imaging Analysis Methods in Quantifying Lumbar Multifidus Thickness. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2013, 43, 251-262.	3.5	34
59	An Assistive Knee-Ankle-Foot-Orthosis and Sit-to-Stand Biomechanics. , 2012, , .		0
60	Association between history and physical examination factors and change in lumbar multifidus muscle thickness after spinal manipulation in patients with low back pain. <i>Journal of Electromyography and Kinesiology</i> , 2012, 22, 724-731.	1.7	40
61	Can pre-season fitness measures predict time to injury in varsity athletes?: a retrospective case control study. <i>The Sports Medicine, Arthroscopy, Rehabilitationrapy and Technology</i> , 2012, 4, 26.	1.0	12
62	Spinal landmark depth in relation to body mass index. <i>Manual Therapy</i> , 2011, 16, 384-387.	1.6	13
63	Evaluation of a Treatment-Based Classification Algorithm for Low Back Pain: A Cross-Sectional Study. <i>Physical Therapy</i> , 2011, 91, 496-509.	2.4	106
64	Association Between Changes in Abdominal and Lumbar Multifidus Muscle Thickness and Clinical Improvement After Spinal Manipulation. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2011, 41, 389-399.	3.5	63
65	Score Distribution of the Scoliosis Research Society-22 Questionnaire in Subgroups of Patients of All Ages With Idiopathic Scoliosis. <i>Spine</i> , 2010, 35, 568-577.	2.0	33
66	The Association Between Scoliosis Research Society-22 Scores and Scoliosis Severity Changes at a Clinically Relevant Threshold. <i>Spine</i> , 2010, 35, 315-322.	2.0	37
67	Description of Clinical Outcomes and Postoperative Utilization of Physical Therapy Services Within 4 Categories of Shoulder Surgery. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2010, 40, 20-29.	3.5	18
68	Reliability of Rehabilitative Ultrasound Imaging of the Transversus Abdominis and Lumbar Multifidus Muscles. <i>Archives of Physical Medicine and Rehabilitation</i> , 2009, 90, 87-94.	0.9	250
69	The Effect of Averaging Multiple Trials on Measurement Error During Ultrasound Imaging of Transversus Abdominis and Lumbar Multifidus Muscles in Individuals With Low Back Pain. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , 2009, 39, 604-611.	3.5	99
70	Rehabilitative ultrasound imaging is a valid measure of trunk muscle size and activation during most isometric sub-maximal contractions: a systematic review. <i>Australian Journal of Physiotherapy</i> , 2009, 55, 153-169.	0.9	128
71	Discriminative and Predictive Validity of the Scoliosis Research Society-22 Questionnaire in Management and Curve-Severity Subgroups of Adolescents With Idiopathic Scoliosis. <i>Spine</i> , 2009, 34, 2450-2457.	2.0	53
72	Beyond Minimally Important Change. <i>Spine</i> , 2009, 34, 2803-2809.	2.0	85

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73	A Systematic Review of the Reliability of Rehabilitative Ultrasound Imaging for the Quantitative Assessment of the Abdominal and Lumbar Trunk Muscles. <i>Spine</i> , 2009, 34, E848-E856.	2.0	140
74	Validity and Reliability of Active Shape Models for the Estimation of Cobb Angle in Patients with Adolescent Idiopathic Scoliosis. <i>Journal of Digital Imaging</i> , 2008, 21, 208-218.	2.9	48
75	Clinical Prediction for Success of Interventions for Managing Low Back Pain. <i>Clinics in Sports Medicine</i> , 2008, 27, 463-479.	1.8	34
76	The effect of time on qualitative compliance in brace treatment for AIS. <i>Prosthetics and Orthotics International</i> , 2008, 32, 136-144.	1.0	15
77	Progression and Determinants of Quantitative Magnetic Resonance Imaging Measures of Lumbar Disc Degeneration. <i>Spine</i> , 2008, 33, 1484-1490.	2.0	78
78	Score Distribution of the Scoliosis Quality of Life Index Questionnaire in Different Subgroups of Patients With Adolescent Idiopathic Scoliosis. <i>Spine</i> , 2007, 32, 1767-1777.	2.0	23
79	The Effect of Lumbar Flexion and Extension on Disc Contour Abnormality Measured Quantitatively on Magnetic Resonance Imaging. <i>Spine</i> , 2006, 31, 2836-2842.	2.0	15
80	Lumbar Disc Degeneration. <i>Spine</i> , 2004, 29, 2679-2690.	2.0	427
81	Preoperative predictors of locomotor ability two months after total knee arthroplasty for severe osteoarthritis. <i>Arthritis and Rheumatism</i> , 2003, 49, 36-50.	6.7	53
82	Comparative responsiveness of locomotor tests and questionnaires used to follow early recovery after total knee arthroplasty. <i>Archives of Physical Medicine and Rehabilitation</i> , 2002, 83, 70-80.	0.9	174
83	Feasibility of an eight-week dance-based exercise program and its effects on locomotor ability of persons with functional class III rheumatoid arthritis. <i>Arthritis and Rheumatism</i> , 2000, 13, 100-111.	6.7	31
84	DANCE-BASED EXERCISE PROGRAM IN RHEUMATOID ARTHRITIS. <i>American Journal of Physical Medicine and Rehabilitation</i> , 1997, 76, 109-113.	1.4	22