

Brian D Snyder

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

2,726
citations

331670

21
h-index

189892

50
g-index

70
all docs

70
docs citations

70
times ranked

2723
citing authors

#	ARTICLE	IF	CITATIONS
1	Diagnosis and management of spinal muscular atrophy: Part 1: Recommendations for diagnosis, rehabilitation, orthopedic and nutritional care. <i>Neuromuscular Disorders</i> , 2018, 28, 103-115.	0.6	584
2	Diagnosis and management of spinal muscular atrophy: Part 2: Pulmonary and acute care; medications, supplements and immunizations; other organ systems; and ethics. <i>Neuromuscular Disorders</i> , 2018, 28, 197-207.	0.6	421
3	Development and Initial Validation of the Classification of Early-Onset Scoliosis (C-EOS). <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, 1359-1367.	3.0	226
4	Quantitative micro-computed tomography: A non-invasive method to assess equivalent bone mineral density. <i>Bone</i> , 2008, 43, 302-311.	2.9	113
5	Effect of Contrast Agent Charge on Visualization of Articular Cartilage Using Computed Tomography: Exploiting Electrostatic Interactions for Improved Sensitivity. <i>Journal of the American Chemical Society</i> , 2009, 131, 13234-13235.	13.7	90
6	Cationic contrast agents improve quantification of glycosaminoglycan (GAG) content by contrast enhanced CT imaging of cartilage. <i>Journal of Orthopaedic Research</i> , 2011, 29, 704-709.	2.3	90
7	Cortical Somatosensory Reorganization in Children with Spastic Cerebral Palsy: A Multimodal Neuroimaging Study. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 725.	2.0	90
8	CT-based Structural Rigidity Analysis Is More Accurate Than Mirels Scoring for Fracture Prediction in Metastatic Femoral Lesions. <i>Clinical Orthopaedics and Related Research</i> , 2016, 474, 643-651.	1.5	84
9	Predicting Fracture Through Benign Skeletal Lesions with Quantitative Computed Tomography. <i>Journal of Bone and Joint Surgery - Series A</i> , 2006, 88, 55.	3.0	73
10	Effect of Hip Reconstructive Surgery on Health-Related Quality of Life of Non-Ambulatory Children with Cerebral Palsy. <i>Journal of Bone and Joint Surgery - Series A</i> , 2016, 98, 1190-1198.	3.0	66
11	Proximal Femoral Varus Derotation Osteotomy in Children with Cerebral Palsy. <i>Journal of Bone and Joint Surgery - Series A</i> , 2015, 97, 2024-2031.	3.0	63
12	Noninvasive Prediction of Fracture Risk in Patients with Metastatic Cancer to the Spine. <i>Clinical Cancer Research</i> , 2009, 15, 7676-7683.	7.0	62
13	Reorganization of the somatosensory cortex in hemiplegic cerebral palsy associated with impaired sensory tracts. <i>NeuroImage: Clinical</i> , 2018, 17, 198-212.	2.7	46
14	Contrast-enhanced CT using a cationic contrast agent enables non-destructive assessment of the biochemical and biomechanical properties of mouse tibial plateau cartilage. <i>Journal of Orthopaedic Research</i> , 2016, 34, 1130-1138.	2.3	45
15	Treatment Planning and Fracture Prediction in Patients with Skeletal Metastasis with CT-Based Rigidity Analysis. <i>Clinical Cancer Research</i> , 2015, 21, 2514-2519.	7.0	43
16	Active agents, biomaterials, and technologies to improve biolubrication and strengthen soft tissues. <i>Biomaterials</i> , 2018, 181, 210-226.	11.4	42
17	Assessing Cartilage Biomechanical Properties: Techniques for Evaluating the Functional Performance of Cartilage in Health and Disease. <i>Annual Review of Biomedical Engineering</i> , 2017, 19, 27-55.	12.3	33
18	Evaluating the Discriminant Validity of the Pediatric Evaluation of Disability Inventory: Computer Adaptive Test in Children With Cerebral Palsy. <i>Physical Therapy</i> , 2017, 97, 669-676.	2.4	30

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19	Health-Related Quality of Life and Care Giver Burden Following Spinal Fusion in Children With Cerebral Palsy. <i>Spine</i> , 2017, 42, E733-E739.	2.0	27
20	Differences in health-related quality of life and caregiver burden after hip and spine surgery in non-ambulatory children with severe cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2016, 58, 298-305.	2.1	26
21	Implementing a Multidisciplinary Clinical Pathway Can Reduce the Deep Surgical Site Infection Rate After Posterior Spinal Fusion in High-Risk Patients. <i>Spine Deformity</i> , 2019, 7, 33-39.	1.5	25
22	Measuring the Reliability and Construct Validity of the Pediatric Evaluation of Disability Inventory-Computer Adaptive Test (PEDI-CAT) in Children With Cerebral Palsy. <i>Archives of Physical Medicine and Rehabilitation</i> , 2019, 100, 45-51.	0.9	25
23	Mega macromolecules as single molecule lubricants for hard and soft surfaces. <i>Nature Communications</i> , 2020, 11, 2139.	12.8	25
24	Mendelian etiologies identified with whole exome sequencing in cerebral palsy. <i>Annals of Clinical and Translational Neurology</i> , 2022, 9, 193-205.	3.7	23
25	A synthetic polymeric biolubricant imparts chondroprotection in a rat meniscal tear model. <i>Biomaterials</i> , 2018, 182, 13-20.	11.4	22
26	A FoxA2+ long-term stem cell population is necessary for growth plate cartilage regeneration after injury. <i>Nature Communications</i> , 2022, 13, 2515.	12.8	22
27	Evaluation of musculoskeletal phenotype of the G608G progeria mouse model with lonafarnib, pravastatin, and zoledronic acid as treatment groups. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12029-12040.	7.1	20
28	Does CT-based Rigidity Analysis Influence Clinical Decision-making in Simulations of Metastatic Bone Disease?. <i>Clinical Orthopaedics and Related Research</i> , 2016, 474, 652-659.	1.5	19
29	Maturation of Corticospinal Tracts in Children With Hemiplegic Cerebral Palsy Assessed by Diffusion Tensor Imaging and Transcranial Magnetic Stimulation. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 254.	2.0	18
30	Murine articular cartilage morphology and compositional quantification with high resolution cationic contrast-enhanced MRI. <i>Journal of Orthopaedic Research</i> , 2017, 35, 2740-2748.	2.3	17
31	Computed tomography-based rigidity analysis: a review of the approach in preclinical and clinical studies. <i>BoneKey Reports</i> , 2014, 3, 587.	2.7	16
32	Assessment of healthy trapeziometacarpal cartilage properties using indentation testing and contrast-enhanced computed tomography. <i>Clinical Biomechanics</i> , 2019, 61, 181-189.	1.2	16
33	Part 1. Review and meta-analysis of studies on modulation of longitudinal bone growth and growth plate activity: A macro-scale perspective. <i>Journal of Orthopaedic Research</i> , 2021, 39, 907-918.	2.3	15
34	A Synthetic Bottle-Brush Polyelectrolyte Reduces Friction and Wear of Intact and Previously Worn Cartilage. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3060-3067.	5.2	13
35	Extent of Spine Deformity Predicts Lung Growth and Function in Rabbit Model of Early Onset Scoliosis. <i>PLoS ONE</i> , 2015, 10, e0136941.	2.5	13
36	Impact of Non-medical Out-of-pocket Expenses on Families of Children With Cerebral Palsy Following Orthopaedic Surgery. <i>Journal of Pediatric Nursing</i> , 2017, 37, 101-107.	1.5	12

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37	What's New in Pediatric Spine Growth Modulation and Implant Technology for Early-Onset Scoliosis?. <i>Journal of Pediatric Orthopaedics</i> , 2018, 38, e3-e13.	1.2	10
38	Why Irrigate for the Same Contamination Rate: Wound Contamination in Pediatric Spinal Surgery Using Betadine Versus Saline. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, e994-e998.	1.2	10
39	The Use of Tranexamic Acid (TXA) in Neuromuscular Hip Reconstruction: Can We Alter the Need for Blood Transfusion?. <i>Journal of Pediatric Orthopaedics</i> , 2020, 40, e766-e771.	1.2	10
40	Altered White Matter Connectivity Associated with Intergyrar Brain Disorganization in Hemiplegic Cerebral Palsy. <i>Neuroscience</i> , 2019, 399, 146-160.	2.3	9
41	Health-related quality of life and caregiver burden after hip reconstruction and spinal fusion in children with spastic cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2022, 64, 80-87.	2.1	9
42	Microstructural, Densitometric and Metabolic Variations in Bones from Rats with Normal or Altered Skeletal States. <i>PLoS ONE</i> , 2013, 8, e82709.	2.5	9
43	A Tissue-Penetrating Double Network Restores the Mechanical Properties of Degenerated Articular Cartilage. <i>Angewandte Chemie</i> , 2016, 128, 4298-4302.	2.0	8
44	Quantitative Evaluation of Equine Articular Cartilage Using Cationic Contrast-Enhanced Computed Tomography. <i>Cartilage</i> , 2021, 12, 211-221.	2.7	8
45	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
46	Raman needle arthroscopy for in vivo molecular assessment of cartilage. <i>Journal of Orthopaedic Research</i> , 2022, 40, 1338-1348.	2.3	8
47	In-vivo cervical spine FSU dynamic motion measured by dual ultrasound: The effect of muscle activation. , 2016, , .		7
48	Combined preoperative traction with instrumented posterior occipitocervical fusion for severe ventral brainstem compression secondary to displaced os odontoideum: technical report of 2 cases. <i>Journal of Neurosurgery: Pediatrics</i> , 2016, 18, 724-729.	1.3	7
49	Surgical Treatment of Developmental Spondylolisthesis: Contemporary Series With a Two-Surgeon Team. <i>Spine Deformity</i> , 2019, 7, 275-285.	1.5	7
50	Off-Label Use of Pediatric Orthopaedic Devices: Important Issues for the Future. <i>Journal of Bone and Joint Surgery - Series A</i> , 2014, 96, e21.	3.0	6
51	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
52	Scoliosis with Chiari I malformation without associated syringomyelia. <i>Spine Deformity</i> , 2021, 9, 1105-1113.	1.5	6
53	High incidence of fracture events in patients with Long-Gap Esophageal Atresia (LGEA): A retrospective review prompting implementation of standardized protocol. <i>Bone Reports</i> , 2015, 3, 1-4.	0.4	5
54	dGEMRIC and CECT Comparison of Cationic and Anionic Contrast Agents in Cadaveric Human Metacarpal Cartilage. <i>Journal of Orthopaedic Research</i> , 2020, 38, 719-725.	2.3	5

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55	Expansion Thoracoplasty in Rabbit Model. <i>Spine</i> , 2018, 43, E877-E884.	2.0	5
56	Contrast-enhanced CT imaging as a non-destructive tool for ex vivo examination of the biochemical content and structure of the human meniscus. <i>Journal of Orthopaedic Research</i> , 2017, 35, 1018-1028.	2.3	4
57	Cationic contrast-enhanced computed tomography distinguishes between reparative, degenerative, and healthy equine articular cartilage. <i>Journal of Orthopaedic Research</i> , 2021, 39, 1647-1657.	2.3	4
58	Tantalum Oxide Nanoparticles for the Quantitative Contrast-Enhanced Computed Tomography of Ex Vivo Human Cartilage: Assessment of Biochemical Composition and Biomechanics. <i>ACS Nano</i> , 2021, 15, 19175-19184.	14.6	4
59	Contrast-Enhanced Computed Tomography Scoring System for Distinguishing Early Osteoarthritis Disease States: A Feasibility Study. <i>Journal of Orthopaedic Research</i> , 2019, 37, 2138-2148.	2.3	3
60	Mortality in Early-Onset Scoliosis During the Growth-friendly Surgery Era. <i>Journal of Pediatric Orthopaedics</i> , 2022, 42, 131-137.	1.2	3
61	Non-Invasive Prediction of Fracture Risk Due to Benign and Metastatic Skeletal Defects. <i>Materials Research Society Symposia Proceedings</i> , 2004, 844, 1.	0.1	1
62	Protocol development for synchrotron contrast-enhanced CT of human hip cartilage. <i>Medical Engineering and Physics</i> , 2019, 73, 1-8.	1.7	1
63	Outcomes and Complications in Management of Congenital Myopathy Early-Onset Scoliosis. <i>Journal of Pediatric Orthopaedics</i> , 2021, Publish Ahead of Print, 531-536.	1.2	1
64	Noninvasive Imaging Technique Predicts Failure Load of the Femur with Simulated Osteolytic Defects. <i>Key Engineering Materials</i> , 2006, 326-328, 811-814.	0.4	0
65	Evaluation of in-vivo kinematics of cervical spines by co-registering dynamic ultrasound with MRI. , 2017, , .		0
66	Evaluation of in-vivo kinematics of cervical spines by co-registering dynamic ultrasound with MRI. , 2017, , .		0
67	Diagnosing and treating native spinal and pelvic osteomyelitis in adolescents. <i>Spine Deformity</i> , 2020, 8, 1001-1008.	1.5	0
68	Variability in Antibiotic Treatment of Pediatric Surgical Site Infection After Spinal Fusion at A Single Institution. <i>Journal of Pediatric Orthopaedics</i> , 2021, 41, e380-e385.	1.2	0
69	Influence of fixation on CA4+ contrast enhanced microCT of articular cartilage and subsequent feasibility for histological evaluation. <i>American Journal of Translational Research (discontinued)</i> , 2021, 13, 8921-8937.	0.0	0