

Boyle C Cheng

List of Publications by Year in descending order

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53
papers

1,045
citations

623734

14
h-index

434195

31
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56
all docs

56
docs citations

56
times ranked

1185
citing authors

#	ARTICLE	IF	CITATIONS
1	Biomechanical Stability of Primary and Revision Sacroiliac Joint Fusion Devices: A Cadaveric Study. <i>Global Spine Journal</i> , 2022, 12, 45-52.	2.3	3
2	Prediction of bleb formation in intracranial aneurysms using machine learning models based on aneurysm hemodynamics, geometry, location, and patient population. <i>Journal of NeuroInterventional Surgery</i> , 2022, 14, 1002-1007.	3.3	4
3	Mechanobiology of the Intervertebral Disc and Treatments Working in Conjunction with the Human Anatomy. , 2021, , 275-291.		0
4	Mechanobiology of the Intervertebral Disc and Treatments Working in Conjunction with the Human Anatomy. , 2021, , 1-18.		0
5	A comparative study of three biomaterials in an ovine bone defect model. <i>Spine Journal</i> , 2020, 20, 457-464.	1.3	15
6	Comparative analysis of the lateral and posterolateral trajectories for fixation of the sacroiliac joint—a cadaveric study. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 489.	2.3	1
7	Toward Next-Generation Biohybrid Catalyst Design: Influence of Degree of Polymerization on Enzyme Activity. <i>Bioconjugate Chemistry</i> , 2020, 31, 939-947.	3.6	10
8	Prevention of Implant-Associated Infection in Neuromodulation: Review of the Literature and Prototype of a Novel Protective Implant Coating. <i>Surgical Infections</i> , 2020, 21, 378-383.	1.4	7
9	Expandable Interbody Fusion Cages: An Editorial on the Surgeon's Perspective on Recent Technological Advances and Their Biomechanical Implications. <i>International Journal of Spine Surgery</i> , 2020, 14, S56-S62.	1.5	2
10	A consideration for the utility of the post-operative Oswestry Disability Index for measuring outcomes after sacroiliac joint fusion. <i>Orthopedic Reviews</i> , 2018, 10, 7549.	1.3	4
11	Material characterization and selection for 3D-printed spine models. <i>3D Printing in Medicine</i> , 2018, 4, 8.	3.1	17
12	Custom-Fit Three-Dimensional-Printed BiPAP Mask to Improve Compliance in Patients Requiring Long-Term Noninvasive Ventilatory Support. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2018, 12, 0310031-310038.	0.7	12
13	Osteoconductive Enhancement of Polyether Ether Ketone: A Mild Covalent Surface Modification Approach. <i>ACS Applied Bio Materials</i> , 2018, 1, 1047-1055.	4.6	15
14	Grafting-from lipase: utilization of a common amino acid residue as a new grafting site. <i>Polymer Chemistry</i> , 2018, 9, 4651-4659.	3.9	17
15	Synthesis and biological evaluation of fentanyl acrylic derivatives. <i>RSC Advances</i> , 2017, 7, 20015-20019.	3.6	9
16	Variability in Flexion Extension Radiographs of the Lumbar Spine: A Comparison of Uncontrolled and Controlled Bending. <i>International Journal of Spine Surgery</i> , 2016, 10, 20.	1.5	5
17	Biomechanics of Posterior Dynamic Fusion Systems in the Lumbar Spine. <i>Clinical Spine Surgery</i> , 2016, 29, E325-E330.	1.3	14
18	Disc nucleus fortification for lumbar degenerative disc disease: a biomechanical study. <i>Journal of Neurosurgery: Spine</i> , 2016, 24, 708-714.	1.7	4

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19	Lumbar Intrafacet Bone Dowel Fixation. <i>Neurosurgery</i> , 2015, 76, 470-478.	1.1	6
20	<i>In Vitro</i> Comparison of Dynesys, PEEK, and Titanium Constructs in the Lumbar Spine. <i>Advances in Orthopedics</i> , 2015, 2015, 1-8.	1.0	18
21	Range of Motion of the Intact Lumbar Segment: A Multivariate Study of 42 Lumbar Spines. <i>International Journal of Spine Surgery</i> , 2015, 9, 5.	1.5	39
22	Measurement Performance of a Computer Assisted Vertebral Motion Analysis System. <i>International Journal of Spine Surgery</i> , 2015, 9, 36.	1.5	12
23	Anterior lumbar interbody fusion with integrated fixation and adjunctive posterior stabilization: A comparative biomechanical analysis. <i>Clinical Biomechanics</i> , 2015, 30, 769-774.	1.2	14
24	Stability and Load Sharing Characteristics of a Posterior Dynamic Stabilization Device. <i>International Journal of Spine Surgery</i> , 2015, 9, 9.	1.5	5
25	Comparison of Intervertebral ROM in Multi-Level Cadaveric Lumbar Spines Using Distinct Pure Moment Loading Approaches. <i>International Journal of Spine Surgery</i> , 2015, 9, 32.	1.5	3
26	Effect of TLIF Cage Placement on In Vivo Kinematics. <i>International Journal of Spine Surgery</i> , 2015, 9, 38.	1.5	11
27	Foreword, Biomechanics Special Issue. <i>International Journal of Spine Surgery</i> , 2015, 9, 31.	1.5	0
28	Letters. <i>Spine</i> , 2014, 39, 922.	2.0	0
29	Quantitative Analysis of the Nonlinear Displacementâ€“Load Behavior of the Lumbar Spine. <i>Journal of Biomechanical Engineering</i> , 2014, 136, .	1.3	5
30	Reliability of computer-assisted lumbar intervertebral measurements using a novel vertebral motion analysis system. <i>Spine Journal</i> , 2014, 14, 274-281.	1.3	24
31	Lateral hypothalamic area deep brain stimulation for refractory obesity: a pilot study with preliminary data on safety, body weight, and energy metabolism. <i>Journal of Neurosurgery</i> , 2013, 119, 56-63.	1.6	128
32	Interpedicular Travel in the Evaluation of Spinal Implants. <i>Spine</i> , 2012, 37, 923-931.	2.0	18
33	Verification of pure moment testing in a multiâ€“degree of freedom spine testing apparatus. <i>International Journal of Spine Surgery</i> , 2012, 6, 1-7.	1.5	5
34	Variability of manual lumbar spine segmentation. <i>International Journal of Spine Surgery</i> , 2012, 6, 167-173.	1.5	9
35	Dynamic Stabilization of the Lumbar Spine. , 2012, , 1939-1946.		0
36	Combinations of Biomechanical Metrics Involving Single and Multi Level Lumbar Posterior Dynamic Spinal Treatments. , 2012, , .		0

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37	Measurement of occlusion of the spinal canal and intervertebral foramen by intervertebral disc bulge. SAS Journal, 2011, 5, 9-15.	1.3	10
38	Safety and efficacy of a novel ultrasonic osteotome device in an ovine model. Journal of Clinical Neuroscience, 2011, 18, 1528-1533.	1.5	51
39	Characterization of articulation of the lumbar facets in the human cadaveric spine using a facet-based coordinate system. Spine Journal, 2011, 11, 340-346.	1.3	8
40	Pursuing New Targets and Indications for Deep Brain Stimulation: Considerations for Device-Related Clinical Research in the United States. Neuromodulation, 2011, 14, 389-392.	0.8	6
41	Measurement of disc bulge of the intervertebral disc: an in vitro study using human cadaver lumbar spine segments. ArgoSpine News and Journal, 2010, 22, 73-80.	0.1	3
42	Development of a Model Based Method for Investigating Facet Articulation. Journal of Biomechanical Engineering, 2010, 132, 064504.	1.3	8
43	Stimulation of the globus pallidus internus in a patient with DYT1-positive primary generalized dystonia: a 10-year follow-up. Neurosurgical Focus, 2010, 29, E16.	2.3	5
44	Bow Hunter's Stroke Caused by a Severe Facet Hypertrophy of C1-2. Journal of Korean Neurosurgical Society, 2010, 47, 134.	1.2	12
45	Effect of fibrin glue on the prevention of persistent cerebral spinal fluid leakage after incidental durotomy during lumbar spinal surgery. European Spine Journal, 2009, 18, 1169-1174.	2.2	168
46	Load Sharing and Stabilization Effects of Anterior Cervical Devices. Journal of Spinal Disorders and Techniques, 2009, 22, 571-577.	1.9	8
47	Biomechanical evaluation of occipitocervicothoracic fusion: impact of partial or sequential fixation. Spine Journal, 2008, 8, 821-826.	1.3	12
48	Clinical outcomes of the Dynesys dynamic neutralization system: 1-year preliminary results. Neurosurgical Focus, 2007, 22, 1-8.	2.3	101
49	Immediate Biomechanical Effects of Lumbar Posterior Dynamic Stabilization Above a Circumferential Fusion. Spine, 2007, 32, 2551-2557.	2.0	61
50	In vivo evaluation of biomechanical anterior cervical plate failure. Advances in Therapy, 2007, 24, 415-426.	2.9	4
51	The Biomechanical Effects Of Spondylolysis and Its Treatment. Spine, 2003, 28, 235-238.	2.0	53
52	Biomechanical Comparison of Posterior Cervical Fixation. Spine, 2001, 26, 1662-1667.	2.0	38
53	Biomechanical Evaluation of Translaminar Facet Joint Fixation. Spine, 1998, 23, 1307-1312.	2.0	61