Neil R Crawford

List of Publications by Year
in descending order

164 papers	5,496 citations	76322 40 h-index	110368 64 g-index
165 all docs	165 docs citations	165 times ranked	3032 citing authors

#	Article	IF	Citations
1	In Vitro Biomechanics of Human Cadaveric Cervical Spines With Mature Fusion. International Journal of Spine Surgery, 2021, 15, 8114.	1.5	2
2	Ensuring navigation integrity using robotics in spine surgery. Journal of Robotic Surgery, 2020, 14, 177-183.	1.8	27
3	Does the accuracy of pedicle screw placement differ between the attending surgeon and resident in navigated robotic-assisted minimally invasive spine surgery?. Journal of Robotic Surgery, 2020, 14, 567-572.	1.8	29
4	Assessment of Surgical Procedural Time, Pedicle Screw Accuracy, and Clinician Radiation Exposure of a Novel Robotic Navigation System Compared With Conventional Open and Percutaneous Freehand Techniques: A Cadaveric Investigation. Global Spine Journal, 2020, 10, 814-825.	2.3	24
5	Navigated robotic assistance results in improved screw accuracy and positive clinical outcomes: an evaluation of the first 54 cases. Journal of Robotic Surgery, 2020, 14, 431-437.	1.8	33
6	Pedicle screw accuracy in clinical utilization of minimally invasive navigated robot-assisted spine surgery. Journal of Robotic Surgery, 2020, 14, 409-413.	1.8	44
7	Navigated robotic assistance improves pedicle screw accuracy in minimally invasive surgery of the lumbosacral spine: 600 pedicle screws in a single institution. International Journal of Medical Robotics and Computer Assisted Surgery, 2020, 16, e2054.	2.3	31
8	Evaluation of abnormal styloid anatomy as a cause of internal jugular vein compression using a 3D-printed model: a laboratory investigation. Journal of Clinical Neuroscience, 2020, 72, 386-391.	1.5	5
9	Robotic Spine Surgery: Current State in Minimally Invasive Surgery. Global Spine Journal, 2020, 10, 34S-40S.	2.3	47
10	Variations Among Human Lumbar Spine Segments and Their Relationships to In Vitro Biomechanics: A Retrospective Analysis of 281 Motion Segments From 85 Cadaveric Spines. International Journal of Spine Surgery, 2020, 14, 140-150.	1.5	8
11	Three-dimensional assessment of robot-assisted pedicle screw placement accuracy and instrumentation reliability based on a preplanned trajectory. Journal of Neurosurgery: Spine, 2020, 33, 519-528.	1.7	25
12	New spinal robotic technologies. Frontiers of Medicine, 2019, 13, 723-729.	3.4	29
13	Biomechanical Effects of an Oblique Lumbar PEEK Cage and Posterior Augmentation. World Neurosurgery, 2019, 126, e975-e981.	1.3	11
14	First spine surgery utilizing real-time image-guided robotic assistance. Computer Assisted Surgery, 2019, 24, 13-17.	1.3	26
15	Biomechanical Evaluation of Cervicothoracic Junction Fusion Constructs. World Neurosurgery, 2019, 124, e139-e146.	1.3	6
16	Impact of Connector Placement and Design on Bending Stiffness of Spinal Constructs. World Neurosurgery, 2019, 121, e89-e95.	1.3	1
17	Comparing the Biomechanical Stability of Cortical Screw Trajectory Versus Standard Pedicle Screw Trajectory for Short- and Long-Segment Posterior Fixation in 3-Column Thoracic Spinal Injury. International Journal of Spine Surgery, 2019, 13, 245-251.	1.5	1
18	Biomechanical Stability Afforded by Unilateral Versus Bilateral Pedicle Screw Fixation with and without Interbody Support Using Lateral Lumbar Interbody Fusion. World Neurosurgery, 2018, 113, e439-e445.	1.3	21

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19	Biomechanical Analysis of an Expandable Lumbar Interbody Spacer. World Neurosurgery, 2018, 114, e616-e623.	1.3	4
20	Biomechanical evaluation of interbody fixation with secondary augmentation: lateral lumbar interbody fusion versus posterior lumbar interbody fusion. Journal of Spine Surgery, 2018, 4, 180-186.	1.2	12
21	Pedicle screw accuracy assessment in ExcelsiusGPSÂ® robotic spine surgery: evaluation of deviation from pre-planned trajectory. Chinese Neurosurgical Journal, 2018, 4, 23.	0.9	44
22	Biomechanical evaluation of the ProDisc-C stability following graded posterior cervical injury. Journal of Neurosurgery: Spine, 2018, 29, 515-524.	1.7	1
23	Technique: open lumbar decompression and fusion with the Excelsius GPS robot. Neurosurgical Focus, 2018, 45, V6.	2.3	37
24	The Mini-Modified Orbitozygomatic and Supraorbital Approaches Anatomical Comparison. Brazilian Neurosurgery, 2018, 37, .	0.1	0
25	Biomechanics of Cervical â€œSkipâ€•Corpectomy Versus Standard Multilevel Corpectomy. Clinical Spine Surgery, 2017, 30, E152-E161.	1.3	8
26	Effect of screw position on load transfer in lumbar pedicle screws: a non-idealized finite element analysis. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 182-192.	1.6	31
27	Biomechanics of a Posterior Lumbar Motion Stabilizing Device. Spine, 2016, 41, E55-E63.	2.0	12
28	Biomechanical Evaluation of the CD HORIZON Spire Z Spinal System With Pedicle and Facet Fixation. Spine, 2016, 41, E902-E907.	2.0	8
29	Biomechanics of transvertebral screw fixation in the thoracic spine: an in vitro study. Journal of Neurosurgery: Spine, 2016, 25, 187-192.	1.7	13
30	Feasibility and Biomechanics of Multilevel Arthroplasty and Combined Cervical Arthrodesis and Arthroplasty. Clinical Spine Surgery, 2016, 29, E522-E531.	1.3	11
31	Biomechanical evaluation of lateral lumbar interbody fusion with secondary augmentation. Journal of Neurosurgery: Spine, 2016, 25, 720-726.	1.7	44
32	Biomechanics of Nested Transforaminal Lumbar Interbody Cages. Neurosurgery, 2016, 78, 297-304.	1.1	3
33	Biomechanics of a flexible sublaminar connector in long-segment thoracic fixation. Journal of Neurosurgery: Spine, 2016, 24, 340-346.	1.7	3
34	Densitometric comparison of 3 occipital regions for suitability of fixation. Journal of Neurosurgery: Spine, 2016, 24, 565-569.	1.7	3
35	The role of obesity in the biomechanics and radiological changes of the spine: an in vitro study. Journal of Neurosurgery: Spine, 2016, 24, 615-623.	1.7	26
36	Microsurgical Approaches to the Ambient Cistern Region: An Anatomic and Qualitative Study. World Neurosurgery, 2016, 87, 584-590.	1.3	21

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37	Biomechanics of posterior instrumentation in L1â€“L3 lateral interbody fusion: Pedicle screw rod construct vs. transfacet pedicle screws. Clinical Biomechanics, 2016, 31, 59-64.	1.2	13
38	The Role of Endoscopic Assistance in Ambient Cistern Surgery: Analysis of Four Surgical Approaches. World Neurosurgery, 2015, 84, 1907-1915.	1.3	8
39	The Effect of Implant Placement on Sacroiliac Joint Range of Motion. Spine, 2015, 40, E525-E530.	2.0	48
40	Endoscopic endonasal atlantoaxial transarticular screw fixation technique: an anatomical feasibility and biomechanical study. Journal of Neurosurgery: Spine, 2015, 22, 470-477.	1.7	13
41	Stability of transforaminal lumbar interbody fusion in the setting of retained facets and posterior fixation using transfacet or standard pedicle screws. Spine Journal, 2015, 15, 1077-1082.	1.3	14
42	Evaluation of a minimally invasive procedure for sacroiliac joint fusion – an in vitro biomechanical analysis of initial and cycled properties. Medical Devices: Evidence and Research, 2014, 7, 131.	0.8	33
43	Volume curtaining: a focus+context effect for multimodal volume visualization. , 2014, , .		2
44	Biomechanical Assessment of Anchored Cervical Interbody Cages. Operative Neurosurgery, 2014, 10, 412-417.	0.8	6
45	Radiographic Assessment of Thoracolumbar Fractures based on Axial Zones. Journal of Spinal Disorders and Techniques, 2014, 27, 59-63.	1.9	1
46	Instrumentation of the Posterior Thoracolumbar Spine. Operative Neurosurgery, 2014, 10, 497-505.	0.8	9
47	Biomechanical evaluation of a metal-on-metal cervical intervertebral disc prosthesis. Spine Journal, 2013, 13, 1640-1649.	1.3	23
48	Characteristics of immediate and fatigue strength of a dual-threaded pedicle screw in cadaveric spines. Spine Journal, 2013, 13, 947-956.	1.3	61
49	Biomechanical evaluation of the craniovertebral junction after inferior-third clivectomy and intradural exposure of the foramen magnum: implications for endoscopic endonasal approaches to the cranial base. Journal of Neurosurgery: Spine, 2013, 18, 327-332.	1.7	13
50	Biomechanics of Lumbar Cortical Screwâ€“Rod Fixation Versus Pedicle Screwâ€“Rod Fixation With and Without Interbody Support. Spine, 2013, 38, 635-641.	2.0	170
51	Biomechanical Evaluation of the Craniovertebral Junction After Anterior Unilateral Condylectomy: Implications for Endoscopic Endonasal Approaches to the Cranial Base. Neurosurgery, 2013, 72, 1021-1030.	1.1	25
52	Biomechanics of Dynamic Rod Segments for Achieving Transitional Stiffness With Lumbosacral Fusion. Neurosurgery, 2013, 73, 517-527.	1.1	3
53	Biomechanical analysis of a novel hook-screw technique for C1â€“2 stabilization. Journal of Neurosurgery: Spine, 2012, 17, 220-226.	1.7	8
54	Biomechanics of a Fixedâ€“Center of Rotation Cervical Intervertebral Disc Prosthesis. International Journal of Spine Surgery, 2012, 6, 34-42.	1.5	15

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55	An anatomical analysis of the mini-modified orbitozygomatic and supra-orbital approaches. Journal of Clinical Neuroscience, 2012, 19, 1545-1550.	1.5	23
56	Inter-laboratory variability in in vitro spinal segment flexibility testing. Journal of Biomechanics, 2011, 44, 2383-2387.	2.1	31
57	Biomechanics of one-level anterior cervical discectomy and plating using two screws versus four screws. Spine Journal, 2011, 11, 234-240.	1.3	11
58	Biomechanical Contribution of the Rib Cage to Thoracic Stability. Spine, 2011, 36, E1686-E1693.	2.0	73
59	A Novel Technique of Odontoidoplasty and C1 Arch Reconstruction: Anatomical and Biomechanical Basis. Operative Neurosurgery, 2011, 68, ons103-ons113.	0.8	5
60	Regarding fixed ring and floating ring pure moment application. Journal of Biomechanics, 2011, 44, 1423-1426.	2.1	2
61	Biomechanical advantage of the index-level pedicle screw in unstable thoracolumbar junction fractures. Journal of Neurosurgery: Spine, 2011, 14, 192-197.	1.7	63
62	Biomechanics of thoracic short versus long fixation after 3-column injury. Journal of Neurosurgery: Spine, 2011, 14, 226-234.	1.7	35
63	Basic Principles of Spinal Internal Fixation. , 2011, , 2979-2991.		1
64	Feasible and Accurate Occipitoatlantal Transarticular Fixation. Operative Neurosurgery, 2010, 66, ons173-ons177.	0.8	1
65	The Craniocaudal Extension of Posterolateral Approaches and Their Combination. Operative Neurosurgery, 2010, 66, ons54-ons64.	0.8	11
66	In Vitro Biomechanical Analysis of a New Lumbar Low-Profile Locking Screw-Plate Construct Versus a Standard Top-Loading Cantilevered Pedicle Screw-Rod Construct. Neurosurgery, 2010, 66, E404-E406.	1.1	7
67	The Legacy of Hephaestus: The First Craniotomy. Neurosurgery, 2010, 67, 881-884.	1.1	15
68	Quantitative Anatomic Study of the Transciliary Supraorbital Approach. Operative Neurosurgery, 2010, 66, ons205-ons210.	0.8	22
69	Biomechanical Comparison of Costotransverse Process Screw Fixation and Pedicle Screw Fixation of the Upper Thoracic Spine. Operative Neurosurgery, 2010, 66, ons178-ons182.	0.8	5
70	Stabilization of the Atlantoaxial Joint With C1-C3 Lateral Mass Screw Constructs: Biomechanical Comparison With Standard Technique. Operative Neurosurgery, 2010, 67, ons422-ons428.	0.8	5
71	Biomechanics of a Novel Minimally Invasive Lumbar Interspinous Spacer. Operative Neurosurgery, 2010, 66, ons126-ons133.	0.8	12
72	Anterolateral C1â€"C2 Transarticular Fixation for Atlantoaxial Arthrodesis. Operative Neurosurgery, 2010, 67, ons38-ons42.	0.8	6

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73	Biomechanics of a Lumbar Interspinous Anchor with Transforaminal Lumbar Interbody Fixation. World Neurosurgery, 2010, 73, 572-577.	1.3	30
74	Comparison of Extraoral and Transoral Approaches to the Craniocervical Junction: Morphometric and Quantitative Analysis. World Neurosurgery, 2010, 74, 178-188.	1.3	16
75	Morphologic Evaluation of Cervical and Lumbar Facet Joints: Intraâ€Articular Facet Block Considerations. Pain Practice, 2010, 10, 272-278.	1.9	11
76	Biomechanics of a lumbar interspinous anchor with anterior lumbar interbody fusion. Journal of Neurosurgery: Spine, 2010, 12, 372-380.	1.7	61
77	Dynamic lumbar pedicle screw-rod stabilization: in vitro biomechanical comparison with standard rigid pedicle screw-rod stabilization. Journal of Neurosurgery: Spine, 2010, 12, 183-189.	1.7	41
78	Quantitative analysis of misplaced pedicle screws in the thoracic spine: how much pullout strength is lost?. Journal of Neurosurgery: Spine, 2010, 12, 503-508.	1.7	38
79	Biomechanical evaluation of posterior thoracic transpedicular discectomy. Journal of Neurosurgery: Spine, 2010, 13, 253-259.	1.7	9
80	Health care burden of cervical spine fractures in the United States: analysis of a nationwide database over a 10-year period. Journal of Neurosurgery: Spine, 2010, 13, 61-66.	1.7	48
81	Biomechanics of a posture-controlling cervical artificial disc: mechanical, in vitro, and finite-element analysis. Neurosurgical Focus, 2010, 28, E11.	2.3	7
82	Dynamic Lumbar Pedicle Screw-Rod Stabilization: Two-Year Follow-Up and Comparison with Fusion. The Open Orthopaedics Journal, 2010, 4, 137-141.	0.2	25
83	History of cervical disc arthroplasty. Neurosurgical Focus, 2009, 27, E10.	2.3	34
84	Biomechanics of C-7 transfacet screw fixation. Journal of Neurosurgery: Spine, 2009, 11, 338-343.	1.7	9
85	Trajectory analysis and pullout strength of self-centering lumbar pedicle screws. Journal of Neurosurgery: Spine, 2009, 10, 486-491.	1.7	19
86	Anatomical and Biomechanical Analyses of the Unique and Consistent Locations of Sacral Insufficiency Fractures. Spine, 2009, 34, 309-315.	2.0	106
87	Biomechanical Effects of Laminoplasty Versus Laminectomy. Spine, 2009, 34, E573-E578.	2.0	44
88	ATLANTOAXIAL ROTATORY SUBLUXATION WITH LIGAMENTOUS DISRUPTION. Operative Neurosurgery, 2009, 64, ons137-ons144.	0.8	3
89	A New Stand-Alone Cervical Anterior Interbody Fusion Device. Spine, 2009, 34, 156-160.	2.0	102
90	The use of surface strain data and a neural networks solution method to determine lumbar facet joint loads during in vitro spine testing. Journal of Biomechanics, 2008, 41, 2647-2653.	2.1	35

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91	Transfacet screw placement for posterior fixation of C-7. Journal of Neurosurgery: Spine, 2008, 9, 200-206.	1.7	24
92	Biomechanical comparison of occipitoatlantal screw fixation techniques. Journal of Neurosurgery: Spine, 2008, 8, 143-152.	1.7	38
93	Helmet Use and Associated Spinal Fractures in Motorcycle Crash Victims. Journal of Trauma, 2008, 64, 190-196.	2.3	18
94	BIOMECHANICAL CONSEQUENCES OF CERVICAL SPONDYLECTOMY VERSUS CORPECTOMY. Operative Neurosurgery, 2008, 63, 303-308.	0.8	4
95	QUANTITATIVE ANALYSIS OF EXPOSURE OF STAGED ORBITOZYGOMATIC AND RETROSIGMOID CRANIOTOMIES FOR LESIONS OF THE CLIVUS WITH SUPRATENTORIAL EXTENSION. Operative Neurosurgery, 2008, 62, ONS318-ONS324.	0.8	11
96	Occipitocervical Vertical Distraction Injuries. Spine, 2008, 33, 2066-2073.	2.0	32
97	Biomechanics of unilateral compared with bilateral lumbar pedicle screw fixation for stabilization of unilateral vertebral disease. Journal of Neurosurgery: Spine, 2008, 8, 44-51.	1.7	51
98	Bioresorbable Polylactide Interbody Implants in an Ovine Anterior Cervical Discectomy and Fusion Model. Spine, 2008, 33, 734-742.	2.0	35
99	Working area, safety zones, and angles of approach for posterior C-1 lateral mass screw placement: a quantitative anatomical and morphometric evaluation. Journal of Neurosurgery: Spine, 2007, 6, 247-254.	1.7	86
100	THE MINIPTERIONAL CRANIOTOMY. Operative Neurosurgery, 2007, 61, 256-265.	0.8	78
101	TRAUMATIC LOADING OF THE BRYAN CERVICAL DISC PROSTHESIS. Operative Neurosurgery, 2007, 60, 388-393.	0.8	5
102	Hangmanâ€™s Fracture. Spine, 2007, 32, 182-187.	2.0	60
103	Biomechanical Comparison of Instrumented and Uninstrumented Multilevel Cervical Discectomy Versus Corpectomy. Spine, 2007, 32, 1220-1226.	2.0	18
104	Moving toward the petroclival region: a model for quantitative and anatomical analysis of tumor shift. Journal of Neurosurgery, 2007, 107, 797-804.	1.6	18
105	Letter to the Editor. Clinical Biomechanics, 2007, 22, 861-862.	1.2	7
106	Pullout resistance of thoracic extrapedicular screws used as a salvage procedure. Spine Journal, 2007, 7, 286-291.	1.3	32
107	Biomechanical comparison of two-level cervical locking posterior screw/rod and hook/rod techniques. Spine Journal, 2007, 7, 194-204.	1.3	21
108	Augmentation of occipitocervical contoured rod fixation with C1â€“C2 transarticular screws. Spine Journal, 2007, 7, 180-187.	1.3	9

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109	Anatomical and quantitative description of the transcavernous approach to interpeduncular and prepontine cisterns. Journal of Neurosurgery, 2006, 104, 957-964.	1.6	83
110	An Anatomical Evaluation of the Mini-Supraorbital Approach and Comparison with Standard Craniotomies. Operative Neurosurgery, 2006, 59, ONS-212-ONS-220.	0.8	50
111	Biomechanical comparison of two new atlantoaxial fixation techniques with C1â€“2 transarticular screwâ€“graft fixation. Journal of Neurosurgery: Spine, 2006, 5, 336-342.	1.7	39
112	Comparative Analysis of Anterior Petrosectomy and Transcavernous Approaches to Retrosellar and Upper Clival Basilar Artery Aneurysms. Operative Neurosurgery, 2006, 58, ONS-13-ONS-21.	0.8	21
113	The Pterional-Transsylvian Approach: an Analytical Study. Operative Neurosurgery, 2006, 59, ONS-263-ONS-269.	0.8	26
114	Biomechanical Assessment of Anterior Lumbar Interbody Fusion With an Anterior Lumbosacral Fixation Screw-Plate: Comparison to Stand-Alone Anterior Lumbar Interbody Fusion and Anterior Lumbar Interbody Fusion With Pedicle Screws in an Unstable Human Cadaver Model. Spine, 2006, 31, 762-768.	2.0	86
115	Quantification And Comparison Of Telovelar And Transvermian Approaches To The Fourth Ventricle. Operative Neurosurgery, 2006, 58, ONS-202-ONS-207.	0.8	37
116	Quantitative analysis of the working area and angle of attack for the retrosigmoid, combined petrosal, and transcochlear approaches to the petroclival region. Journal of Neurosurgery, 2006, 104, 137-142.	1.6	116
117	A biomechanical comparison of three anterior thoracolumbar implants after corpectomy: are two screws better than one?. Journal of Neurosurgery: Spine, 2006, 4, 213-218.	1.7	19
118	Biomechanical evaluation of a bioresorbable odontoid screw. Journal of Neurosurgery: Spine, 2005, 2, 182-187.	1.7	15
119	Biomechanical Analysis of a Resorbable Anterior Cervical Graft Containment Plate. Spine, 2005, 30, 1031-1038.	2.0	15
120	Effect of Recombinant Human Bone Morphogenetic Protein-2 in an Experimental Model of Spinal Fusion in a Radiated Area. Spine, 2005, 30, 2585-2592.	2.0	7
121	Unilateral Cervical Facet Dislocation: Biomechanics of Fixation. Spine, 2005, 30, E164-E168.	2.0	28
122	Biomechanics of Stabilization After Cervicothoracic Compression-Flexion Injury. Spine, 2005, 30, 1505-1512.	2.0	35
123	Quantitative Anatomic Study of Three Surgical Approaches to the Anterior Communicating Artery Complex. Operative Neurosurgery, 2005, 56, ONS-397-ONS-405.	0.8	38
124	Biomechanical Comparison of Anterior Versus Posterior Lumbar Threaded Interbody Fusion Cages. Spine, 2005, 30, 302-310.	2.0	16
125	Biomechanical Analysis of Rigid Stabilization Techniques for Three-Column Injury in the Lower Cervical Spine. Spine, 2005, 30, 915-922.	2.0	72
126	Biomechanical comparison of C1â€“2 posterior fixation techniques. Journal of Neurosurgery: Spine, 2005, 2, 175-181.	1.7	85

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127	Use of dual transarticular screws to fixate simultaneous occipitoatlantal and atlantoaxial dislocations. Journal of Neurosurgery: Spine, 2005, 3, 318-323.	1.7	31
128	Biomechanical analysis of a newly designed bioabsorbable anterior cervical plate. Journal of Neurosurgery: Spine, 2005, 3, 465-470.	1.7	9
129	Biomechanics of Lumbar Arthroplasty. Neurosurgery Clinics of North America, 2005, 16, 595-602.	1.7	14
130	Vertical atlantoaxial distraction injuries: radiological criteria and clinical implications. Journal of Neurosurgery: Spine, 2004, 1, 273-280.	1.7	53
131	Biomechanical Comparison of Anterolateral Plate, Lateral Plate, and Pedicle Screws-Rods for Enhancing Anterolateral Lumbar Interbody Cage Stabilization. Spine, 2004, 29, 635-641.	2.0	37
132	New Percutaneously Inserted Spinal Fixation System. Spine, 2004, 29, 703-709.	2.0	20
133	The Biomechanical Effects of Cervical Multilevel Oblique Corpectomy. Spine, 2004, 29, 1420-1427.	2.0	22
134	In vivo evaluation of bioresorbable polylactide implants for cervical graft containment in an ovine spinal fusion model. Neurosurgical Focus, 2004, 16, 1-6.	2.3	14
135	Biomechanical comparison of cervical interbody cage versus structural bone graft. Spine Journal, 2003, 3, 262-269.	1.3	24
136	Biomechanical comparison of facet-sparing laminectomy and Christmas tree laminectomy. Journal of Neurosurgery: Spine, 2003, 99, 214-220.	1.7	16
137	Craniovertebral junction fixation with transarticular screws: biomechanical analysis of a novel technique. Journal of Neurosurgery: Spine, 2003, 98, 202-209.	1.7	22
138	Biomechanical analysis of multilevel cervical corpectomy and plate constructs. Journal of Neurosurgery: Spine, 2003, 99, 98-103.	1.7	14
139	Anatomy and Biomechanics of the Craniocervical Junction. Seminars in Neurosurgery, 2002, 13, 101-110.	0.0	14
140	Working Area and Angle of Attack in Three Cranial Base Approaches: Pterional, Orbitozygomatic, and Maxillary Extension of the Orbitozygomatic Approach. Neurosurgery, 2002, 50, 550-557.	1.1	97
141	Unilateral Cervical Facet Dislocation: Injury Mechanism and Biomechanical Consequences. Spine, 2002, 27, 1858-1863.	2.0	54
142	A sequence of two rotations--50 degrees torso flexion followed by +/-120 degrees of head axial rotation--was monitored using (essentially) goniometers and simultaneously measured by Euler XZY an YZX decompositions of marker data from an electromagnetic system (Flock of Birds). Clinical Biomechanics, 2002, 17, 166-168.	1.2	15
143	Letters. Spine, 2002, 27, 219-220.	2.0	13
144	Working area and angle of attack in three cranial base approaches: pterional, orbitozygomatic, and maxillary extension of the orbitozygomatic approach. Neurosurgery, 2002, 50, 550-5; discussion 555-7.	1.1	119

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145	Biomechanical comparison of anterior cervical plating and combined anterior/lateral mass plating. Spine Journal, 2001, 1, 166-170.	1.3	40
146	Biomechanical Effects of Progressive Anterior Cervical Decompression. Spine, 2001, 26, 6-13.	2.0	55
147	Biomechanics of Grade I degenerative lumbar spondylolisthesis. Part 2: Treatment with threaded interbody cages/dowels and pedicle screws. Journal of Neurosurgery: Spine, 2001, 94, 51-60.	1.7	18
148	Biomechanics of Grade I degenerative lumbar spondylolisthesis. Part 1: In vitro model. Journal of Neurosurgery: Spine, 2001, 94, 45-50.	1.7	22
149	Increase in Spinal Canal Area After Inverse Laminoplasty. Spine, 2000, 25, 2771-2776.	2.0	10
150	A new technique for determining 3-D joint angles: the tilt/twist method. Clinical Biomechanics, 1999, 14, 153-165.	1.2	158
151	Differential Biomechanical Effects of Injury and Wiring at C1â€“C2. Spine, 1999, 24, 1894.	2.0	40
152	Biomechanical analysis of cranial settling after transoral odontoidectomy. Neurosurgical Focus, 1999, 6, E9.	2.3	45
153	A biomechanical evaluation of occipitocervical instrumentation: screw compared with wire fixation. Journal of Neurosurgery: Spine, 1999, 90, 84-90.	1.7	68
154	The Spinal Lax Zone and Neutral Zone. Journal of Spinal Disorders, 1998, 11, 416???429.	1.1	107
155	Biomechanical Comparison of C1-C2 Posterior Fixations. Spine, 1998, 23, 1946-1955.	2.0	192
156	Biomechanical Effects of Transthoracic Microdiscectomy. Spine, 1997, 22, 605-612.	2.0	35
157	Comparative Mechanical Properties of Spinal Cable and Wire Fixation Systems. Spine, 1997, 22, 596-604.	2.0	60
158	Construction of Local Vertebral Coordinate Systems Using a Digitizing Probe. Spine, 1997, 22, 559-563.	2.0	125
159	Comparative Pull-Out Strength of Tapped and Untapped Pilot Holes for Bicortical Anterior Cervical Screws. Spine, 1997, 22, 167-170.	2.0	25
160	Methods for determining spinal flexion/extension, lateral bending, and axial rotation from marker coordinate data: Analysis and refinement. Human Movement Science, 1996, 15, 55-78.	1.4	56
161	Biomechanical characteristics of C1â€“2 cable fixations. Journal of Neurosurgery, 1996, 85, 316-322.	1.6	119
162	An Apparatus for Applying Pure Nonconstraining Moments to Spine Segments In Vitro. Spine, 1995, 20, 2097-2100.	2.0	171

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163	Biomechanical Effects of Transoral Odontoidectomy. Neurosurgery, 1995, 36, 1146-1153.	1.1	133
164	Biomechanical Effects of Transoral Odontoidectomy. Neurosurgery, 1995, 36, 1146???1153.	1.1	12