

# Roger Härtl

## List of Publications by Year in descending order

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Version: 2024-02-01

161  
papers

7,704  
citations

50276

46  
h-index

56724

83  
g-index

165  
all docs

165  
docs citations

165  
times ranked

5765  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anterior approaches to fusion of the cervical spine: a metaanalysis of fusion rates. Journal of Neurosurgery: Spine, 2007, 6, 298-303.	1.7	397
2	VI. Indications for Intracranial Pressure Monitoring. Journal of Neurotrauma, 2007, 24, S-37-S-44.	3.4	336
3	VIII. Intracranial Pressure Thresholds. Journal of Neurotrauma, 2007, 24, S-55-S-58.	3.4	301
4	IX. Cerebral Perfusion Thresholds. Journal of Neurotrauma, 2007, 24, S-59-S-64.	3.4	292
5	Degenerative Lumbar Spine Disease: Estimating Global Incidence and Worldwide Volume. Global Spine Journal, 2018, 8, 784-794.	2.3	252
6	Brain tissue oxygen monitoring in comatose patients: Implications for therapy. Neurological Research, 1997, 19, 233-240.	1.3	235
7	Direct Transport Within An Organized State Trauma System Reduces Mortality in Patients With Severe Traumatic Brain Injury. Journal of Trauma, 2006, 60, 1250-1256.	2.3	210
8	Worldwide Survey on the Use of Navigation in Spine Surgery. World Neurosurgery, 2013, 79, 162-172.	1.3	201
9	Marked reduction in mortality in patients with severe traumatic brain injury. Journal of Neurosurgery, 2013, 119, 1583-1590.	1.6	201
10	II. Hyperosmolar Therapy. Journal of Neurotrauma, 2007, 24, S-14-S-20.	3.4	186
11	Increased mortality in patients with severe traumatic brain injury treated without intracranial pressure monitoring. Journal of Neurosurgery, 2012, 117, 729-734.	1.6	186
12	Minimal Access Versus Open Transforaminal Lumbar Interbody Fusion. Spine, 2010, 35, 2273-2281.	2.0	167
13	Tissue-engineered intervertebral discs produce new matrix, maintain disc height, and restore biomechanical function to the rodent spine. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13106-13111.	7.1	166
14	Effect of early nutrition on deaths due to severe traumatic brain injury. Journal of Neurosurgery, 2008, 109, 50-56.	1.6	162
15	Reduction of Post-traumatic Intracranial Hypertension by Hypertonic/Hyperoncotic Saline/Dextran and Hypertonic Mannitol. Neurosurgery, 1995, 37, 98-108.	1.1	151
16	Experimental Antileukocyte Interventions in Cerebral Ischemia. Journal of Cerebral Blood Flow and Metabolism, 1996, 16, 1108-1119.	4.3	148
17	Continuous hypertonic saline therapy and the occurrence of complications in neurocritically ill patients*. Critical Care Medicine, 2009, 37, 1433-1441.	0.9	132
18	Minimally invasive lateral approach for symptomatic thoracic disc herniation: initial multicenter clinical experience. Journal of Neurosurgery: Spine, 2012, 16, 264-279.	1.7	124

#	ARTICLE	IF	CITATIONS
19	Hypertonic/Hyperoncotic Saline Attenuates Microcirculatory Disturbances after Traumatic Brain Injury. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997, 42, 41S-47S.	2.4	97
20	Response to intracranial hypertension treatment as a predictor of death in patients with severe traumatic brain injury. <i>Journal of Neurosurgery</i> , 2011, 114, 1471-1478.	1.6	96
21	Hypertonic saline reduces cumulative and daily intracranial pressure burdens after severe traumatic brain injury. <i>Journal of Neurosurgery</i> , 2015, 122, 202-210.	1.6	95
22	Operative results and learning curve: microscope-assisted tubular microsurgery for 1- and 2-level discectomies and laminectomies. <i>Neurosurgical Focus</i> , 2008, 25, E14.	2.3	92
23	Comparison of Navigated Versus Non-Navigated Pedicle Screw Placement in 260 Patients and 1434 Screws. <i>Journal of Spinal Disorders and Techniques</i> , 2015, 28, E298-E303.	1.9	90
24	The endoscopic endonasal approach to the odontoid and its impact on early extubation and feeding. <i>Journal of Neurosurgery</i> , 2015, 122, 511-518.	1.6	89
25	Recent advances in biological therapies for disc degeneration: tissue engineering of the annulus fibrosus, nucleus pulposus and whole intervertebral discs. <i>Current Opinion in Biotechnology</i> , 2013, 24, 872-879.	6.6	87
26	Lumbar Spinal Stenosis Associated With Degenerative Lumbar Spondylolisthesis: A Systematic Review and Meta-analysis of Secondary Fusion Rates Following Open vs Minimally Invasive Decompression. <i>Neurosurgery</i> , 2017, 80, 355-367.	1.1	86
27	Endonasal endoscopic resection of the odontoid process in a nonachondroplastic dwarf with juvenile rheumatoid arthritis: feasibility of the approach and utility of the intraoperative Iso-C three-dimensional navigation. <i>Journal of Neurosurgery: Spine</i> , 2008, 8, 376-380.	1.7	83
28	AOSpine Consensus Paper on Nomenclature for Working-Channel Endoscopic Spinal Procedures. <i>Global Spine Journal</i> , 2020, 10, 111S-121S.	2.3	81
29	Early White Blood Cell Dynamics after Traumatic Brain Injury: Effects on the Cerebral Microcirculation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1997, 17, 1210-1220.	4.3	80
30	Combined nucleus pulposus augmentation and annulus fibrosus repair prevents acute intervertebral disc degeneration after discectomy. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	79
31	Potential and Limitations of Neural Decompression in Extreme Lateral Interbody Fusion—A Systematic Review. <i>World Neurosurgery</i> , 2017, 101, 99-113.	1.3	76
32	Total Navigation in Spine Surgery; A Concise Guide to Eliminate Fluoroscopy Using a Portable Intraoperative Computed Tomography 3-Dimensional Navigation System. <i>World Neurosurgery</i> , 2017, 100, 325-335.	1.3	75
33	Endonasal Endoscopic Resection of an Os Odontoideum to Decompress the Cervicomedullary Junction. <i>Spine</i> , 2009, 34, E139-E143.	2.0	74
34	Hypertonic/Hyperoncotic Saline Reliably Reduces ICP in Severely Head-Injured Patients with Intracranial Hypertension. , 1997, 70, 126-129.		69
35	The vertebral artery and the cervical pedicle: morphometric analysis of a critical neighborhood. <i>Journal of Neurosurgery: Spine</i> , 2010, 13, 52-60.	1.7	63
36	Anterior cervical discectomy and fusion with a zero-profile integrated plate and spacer device: a clinical and radiological study. <i>Journal of Neurosurgery: Spine</i> , 2014, 21, 529-537.	1.7	63

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37	Biological Treatment Approaches for Degenerative Disk Disease: A Literature Review of in Vivo Animal and Clinical Data. <i>Global Spine Journal</i> , 2016, 6, 497-518.	2.3	62
38	Results and risk factors for recurrence following single-level tubular lumbar microdiscectomy. <i>Journal of Neurosurgery: Spine</i> , 2010, 12, 680-686.	1.7	59
39	Fundamentals of Intervertebral Disc Degeneration. <i>World Neurosurgery</i> , 2022, 157, 264-273.	1.3	57
40	Injectable, high-density collagen gels for annulus fibrosus repair: An <i>in vitro</i> rat tail model. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 2571-2581.	4.0	55
41	Riboflavin crosslinked high-density collagen gel for the repair of annular defects in intervertebral discs: An <i>in vivo</i> study. <i>Acta Biomaterialia</i> , 2015, 26, 215-224.	8.3	55
42	Total 3D Airo® Navigation for Minimally Invasive Transforaminal Lumbar Interbody Fusion. <i>BioMed Research International</i> , 2016, 2016, 1-8.	1.9	55
43	Elimination of Subsidence with 26-mm-Wide Cages in Extreme Lateral Interbody Fusion. <i>World Neurosurgery</i> , 2017, 104, 644-652.	1.3	54
44	The benefit zone of full-endoscopic spine surgery. <i>Journal of Spine Surgery</i> , 2019, 5, S41-S56.	1.2	52
45	Minimally Invasive Transforaminal Lumbar Interbody Fusion: Meta-analysis of the Fusion Rates. What is the Optimal Graft Material?. <i>Neurosurgery</i> , 2017, 81, 958-971.	1.1	51
46	Retrospective Review of Immediate Restoration of Lordosis in Single-Level Minimally Invasive Transforaminal Lumbar Interbody Fusion: A Comparison of Static and Expandable Interbody Cages. <i>Operative Neurosurgery</i> , 2020, 18, 518-523.	0.8	51
47	Hypertonic Saline is Superior to Mannitol for the Combined Effect on Intracranial Pressure and Cerebral Perfusion Pressure Burdens in Patients With Severe Traumatic Brain Injury. <i>Neurosurgery</i> , 2020, 86, 221-230.	1.1	50
48	Ten-Step Minimally Invasive Spine Lumbar Decompression and Dural Repair Through Tubular Retractors. <i>Operative Neurosurgery</i> , 2017, 13, 232-245.	0.8	49
49	Comparison of the safety outcomes between two surgical approaches for anterior lumbar fusion surgery: anterior lumbar interbody fusion (ALIF) and extreme lateral interbody fusion (ELIF). <i>European Spine Journal</i> , 2016, 25, 1484-1521.	2.2	48
50	The rhinopalatine line as a reliable predictor of the inferior extent of endonasal odontoidectomies. <i>Neurosurgical Focus</i> , 2015, 38, E16.	2.3	47
51	Biologic Annulus Fibrosus Repair: A Review of Preclinical <i>In Vivo</i> Investigations. <i>Tissue Engineering - Part B: Reviews</i> , 2018, 24, 179-190.	4.8	47
52	Tubular Microsurgery for Lumbar Discectomies and Laminectomies in Obese Patients. <i>Spine</i> , 2009, 34, E664-E672.	2.0	46
53	Annulus Fibrosus Repair Using High-Density Collagen Gel. <i>Spine</i> , 2018, 43, E208-E215.	2.0	46
54	In vivo annular repair using high-density collagen gel seeded with annulus fibrosus cells. <i>Acta Biomaterialia</i> , 2018, 79, 230-238.	8.3	46

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55	Casemix, management, and mortality of patients receiving emergency neurosurgery for traumatic brain injury in the Global Neurotrauma Outcomes Study: a prospective observational cohort study. <i>Lancet Neurology</i> , The, 2022, 21, 438-449.	10.2	46
56	Silicate-Substituted Calcium Phosphate Ceramic Bone Graft Replacement for Spinal Fusion Procedures. <i>Spine</i> , 2012, 37, E1264-E1272.	2.0	45
57	Total disc replacement using tissue-engineered intervertebral discs in the canine cervical spine. <i>PLoS ONE</i> , 2017, 12, e0185716.	2.5	44
58	Defining the MIS-TLIF: A Systematic Review of Techniques and Technologies Used by Surgeons Worldwide. <i>Global Spine Journal</i> , 2020, 10, 151S-167S.	2.3	44
59	Evolving Navigation, Robotics, and Augmented Reality in Minimally Invasive Spine Surgery. <i>Global Spine Journal</i> , 2020, 10, 22S-33S.	2.3	42
60	Biomechanical comparison of two new atlantoaxial fixation techniques with C1â€“2 transarticular screwâ€“graft fixation. <i>Journal of Neurosurgery: Spine</i> , 2006, 5, 336-342.	1.7	39
61	Imageâ€“based tissue engineering of a total intervertebral disc implant for restoration of function to the rat lumbar spine. <i>NMR in Biomedicine</i> , 2012, 25, 443-451.	2.8	39
62	Expandable Polyaryl-Ether-Ether-Ketone Spacers for Interbody Distraction in the Lumbar Spine. <i>Global Spine Journal</i> , 2015, 5, 169-178.	2.3	36
63	The Impact of Cage Dimensions, Positioning, and Side of Approach in Extreme Lateral Interbody Fusion. <i>Clinical Spine Surgery</i> , 2018, 31, E42-E49.	1.3	36
64	Single-Level Lateral Lumbar Interbody Fusion for the Treatment of Adjacent Segment Disease. <i>Spine</i> , 2017, 42, E515-E522.	2.0	35
65	Unilateral tubular approach for bilateral laminotomy: effect on ipsilateral and contralateral buttock and leg pain. <i>European Spine Journal</i> , 2017, 26, 389-396.	2.2	34
66	Mesenchymal Stem Cell-Seeded High-Density Collagen Gel for Annular Repair: 6-Week Results From In Vivo Sheep Models. <i>Neurosurgery</i> , 2019, 85, E350-E359.	1.1	34
67	Severe Traumatic Brain Injury at a Tertiary Referral Center in Tanzania: Epidemiology and Adherence to Brain Trauma Foundation Guidelines. <i>World Neurosurgery</i> , 2017, 105, 238-248.	1.3	33
68	Neurosurgery in East Africa: Innovations. <i>World Neurosurgery</i> , 2018, 113, 436-452.	1.3	33
69	Mannitol Decreases ICP but Does Not Improve Brain-Tissue pO2 in Severely Head-Injured Patients with Intracranial Hypertension. , 1997, 70, 40-42.		32
70	Multi-Institutional Neurosurgical Training Initiative at a Tertiary Referral Center in Mwanza, Tanzania: Where We Are After 2 Years. <i>World Neurosurgery</i> , 2014, 82, e1-e8.	1.3	30
71	THE EFFECT OF HYPERTONIC FLUID RESUSCITATION ON BRAIN EDEMA IN RABBITS SUBJECTED TO BRAIN INJURY AND HEMORRHAGIC SHOCK. <i>Shock</i> , 1995, 3, 274-279.	2.1	28
72	Radiographic and clinical outcome after 1- and 2-level transsacral axial interbody fusion. <i>Journal of Neurosurgery: Spine</i> , 2013, 19, 454-463.	1.7	28

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73	The Growth of Neurosurgery in East Africa: Challenges. <i>World Neurosurgery</i> , 2018, 113, 425-435.	1.3	28
74	Endoscopic lumbar foraminotomy. <i>Journal of Clinical Neuroscience</i> , 2015, 22, 730-734.	1.5	27
75	Initial investigation of individual and combined annulus fibrosus and nucleus pulposus repair ex vivo. <i>Acta Biomaterialia</i> , 2017, 59, 192-199.	8.3	27
76	Traumatic Brain Injury in a Rural and an Urban Tanzanian Hospital – A Comparative, Retrospective Analysis Based on Computed Tomography. <i>World Neurosurgery</i> , 2014, 81, 478-482.	1.3	26
77	Are Locked Facets a Contraindication for Extreme Lateral Interbody Fusion?. <i>World Neurosurgery</i> , 2017, 100, 607-618.	1.3	25
78	MIS approaches in the cervical spine. <i>Journal of Spine Surgery</i> , 2019, 5, S74-S74.	1.2	25
79	Infant hydrocephalus in sub-Saharan Africa: the reality on the Tanzanian side of the lake. <i>Journal of Neurosurgery: Pediatrics</i> , 2017, 20, 423-431.	1.3	23
80	Proteoglycan removal by chondroitinase ABC improves injectable collagen gel adhesion to annulus fibrosus. <i>Acta Biomaterialia</i> , 2019, 97, 428-436.	8.3	23
81	Neurosurgery and Global Health: Going Far and Fast, Together. <i>World Neurosurgery</i> , 2010, 73, 259-260.	1.3	22
82	Tissue-engineered intervertebral discs: MRI results and histology in the rodent spine. <i>Journal of Neurosurgery: Spine</i> , 2014, 20, 443-451.	1.7	22
83	A Dual Approach for the Management of Complex Craniovertebral Junction Abnormalities: Endoscopic Endonasal Odontoidectomy and Posterior Decompression with Fusion. <i>World Neurosurgery: X</i> , 2019, 2, 100010.	1.1	21
84	Screw Placement Accuracy for Minimally Invasive Transforaminal Lumbar Interbody Fusion Surgery: A Study on 3-D Neuronavigation-Guided Surgery. <i>Global Spine Journal</i> , 2012, 2, 143-151.	2.3	20
85	Navigated guide tube for the placement of mini-open pedicle screws using stereotactic 3D navigation without the use of K-wires. <i>Journal of Neurosurgery: Spine</i> , 2013, 18, 178-183.	1.7	20
86	Neurosurgery in East Africa: Foundations. <i>World Neurosurgery</i> , 2018, 113, 411-424.	1.3	20
87	Endoscopic endonasal odontoid resection with real-time intraoperative image-guided computed tomography: report of 4 cases. <i>Journal of Neurosurgery</i> , 2018, 128, 1486-1491.	1.6	20
88	Biomechanical Evaluation of Lumbar Decompression Adjacent to Instrumented Segments. <i>Neurosurgery</i> , 2016, 79, 895-904.	1.1	19
89	Operative Treatment of Traumatic Spinal Injuries in Tanzania: Surgical Management, Neurologic Outcomes, and Time to Surgery. <i>Global Spine Journal</i> , 2021, 11, 89-98.	2.3	19
90	Bioabsorbable instrumentation for single-level cervical degenerative disc disease: a radiological and clinical outcome study. <i>Journal of Neurosurgery: Spine</i> , 2009, 11, 529-537.	1.7	18

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91	Ten-Step Minimally Invasive Cervical Decompression via Unilateral Tubular Laminotomy: Technical Note and Early Clinical Experience. <i>Operative Neurosurgery</i> , 2019, 18, 284-294.	0.8	18
92	Pathomechanism and Biomechanics of Degenerative Disc Disease: Features of Healthy and Degenerated Discs. <i>International Journal of Spine Surgery</i> , 2021, 15, 10-25.	1.5	18
93	Local muscle flaps minimize post-operative wound morbidity in patients with neoplastic disease of the spine. <i>Clinical Neurology and Neurosurgery</i> , 2018, 171, 100-105.	1.4	14
94	Anterior Cervical Discectomy and Fusion (ACDF): Comparison Between Zero Profile Implants and Anterior Cervical Plate and Spacer. <i>Cureus</i> , 2016, 8, e573.	0.5	13
95	Can Fan-Beam Interactive Computed Tomography Accurately Predict Indirect Decompression in Minimally Invasive Spine Surgery Fusion Procedures?. <i>World Neurosurgery</i> , 2017, 107, 322-333.	1.3	13
96	Degenerative changes of the canine cervical spine after discectomy procedures, an in vivo study. <i>BMC Veterinary Research</i> , 2017, 13, 193.	1.9	13
97	A New Volumetric Radiologic Method to Assess Indirect Decompression After Extreme Lateral Interbody Fusion Using High-Resolution Intraoperative Computed Tomography. <i>World Neurosurgery</i> , 2018, 109, 59-67.	1.3	13
98	Quality of Life After Combined Endonasal Endoscopic Odontoidectomy and Posterior Suboccipital Decompression and Fusion. <i>World Neurosurgery</i> , 2018, 116, e571-e576.	1.3	13
99	Image Guidance in Spinal Surgery: A Critical Appraisal and Future Directions. <i>International Journal of Spine Surgery</i> , 2021, 15, S74-S86.	1.5	13
100	Revision strategies for AxialIF. <i>Neurosurgical Focus</i> , 2011, 31, E17.	2.3	12
101	Minimally Invasive Approaches for Surgical Treatment of Lumbar Spondylolisthesis. <i>Neurosurgery Clinics of North America</i> , 2019, 30, 305-312.	1.7	12
102	Intraoperative image guidance for cervical spine surgery. <i>Annals of Translational Medicine</i> , 2021, 9, 93-93.	1.7	11
103	Minimally Invasive Spine Surgery: An Overview. <i>World Neurosurgery</i> , 2022, 163, 214-227.	1.3	11
104	Nonoperative treatment of traumatic spinal injuries in Tanzania: who is not undergoing surgery and why?. <i>Spinal Cord</i> , 2020, 58, 1197-1205.	1.9	10
105	One and a half minimally invasive transforaminal lumbar interbody fusion: single level transforaminal lumbar interbody fusion with adjacent segment unilateral laminotomy for bilateral decompression for spondylolisthesis with bisegmental stenosis. <i>Journal of Spine Surgery</i> , 2018, 4, 780-786.	1.2	8
106	Instrumented arthrodesis for non-traumatic craniocervical instability in very young children. <i>Child's Nervous System</i> , 2019, 35, 97-106.	1.1	8
107	Bow Hunter Syndrome with Associated Pseudoaneurysm. <i>World Neurosurgery</i> , 2019, 122, 53-57.	1.3	8
108	Minimally Invasive Laminotomy for Contralateral "Over-the-Top" Foraminal Decompression Using 3-Dimensional Total Navigation: 2-Dimensional Operative Video. <i>Operative Neurosurgery</i> , 2020, 19, E296-E296.	0.8	8

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109	Development of a Curriculum for Minimally Invasive Spine Surgery (MISS). <i>Global Spine Journal</i> , 2020, 10, 122S-125S.	2.3	8
110	Cervical Spine Trauma in East Africa: Presentation, Treatment, and Mortality. <i>International Journal of Spine Surgery</i> , 2021, 15, 879-889.	1.5	8
111	Hypertonic saline for the management of raised intracranial pressure after severe traumatic brain injury. <i>Annals of the New York Academy of Sciences</i> , 2015, 1345, 83-88.	3.8	7
112	Novel MIS 3D NAV Single Step Pedicle Screw System (SSPSS): Workflow, Accuracy and Initial Clinical Experience. <i>Global Spine Journal</i> , 2022, 12, 1098-1108.	2.3	7
113	Minimally Invasive Surgical Treatment Options for Lumbar Disc Herniations and Stenosis. <i>Seminars in Spine Surgery</i> , 2011, 23, 20-26.	0.2	6
114	Minimally Invasive Transforaminal Lumbar Interbody Fusion using 3-Dimensional Total Navigation: 2-Dimensional Operative Video. <i>Operative Neurosurgery</i> , 2020, 18, E9-E10.	0.8	6
115	Muscle Flap Closure following Complex Spine Surgery: A Decade of Experience. <i>Plastic and Reconstructive Surgery</i> , 2020, 146, 642e-650e.	1.4	6
116	Pressure ulcers after traumatic spinal injury in East Africa: risk factors, illustrative case, and low-cost protocol for prevention and treatment. <i>Spinal Cord Series and Cases</i> , 2020, 6, 48.	0.6	6
117	Metrics Development for Minimal Invasive Unilateral Laminotomy for Bilateral Decompression of Lumbar Spinal Stenosis With and Without Spondylolisthesis by an International Expert Panel. <i>Global Spine Journal</i> , 2020, 10, 168S-175S.	2.3	6
118	Elastic Image Fusion Software to Coregister Preoperatively Planned Pedicle Screws With Intraoperative Computed Tomography Data for Image-Guided Spinal Surgery. <i>International Journal of Spine Surgery</i> , 2021, 15, 295-301.	1.5	6
119	Optimizing Patient Access During an Emergency While Using Intraoperative Computed Tomography. <i>World Neurosurgery</i> , 2019, 121, 274-278.e1.	1.3	5
120	Tandem Microscopic Slalom Technique: The Use of 2 Microscopes Simultaneously Performing Unilateral Laminotomy for Bilateral Decompression in Multilevel Lumbar Spinal Stenosis. <i>Global Spine Journal</i> , 2020, 10, 88S-93S.	2.3	5
121	Review of the Highlights from the First Annual Global Neurosurgery 2019: A Practical Symposium. <i>World Neurosurgery</i> , 2020, 137, 46-54.	1.3	5
122	Severe traumatic brain injury management in Tanzania: analysis of a prospective cohort. <i>Journal of Neurosurgery</i> , 2021, 135, 1190-1202.	1.6	5
123	Ten-Step Minimally Invasive Treatment of Lumbar Giant Disc Herniation via Unilateral Tubular Laminotomy for Bilateral Decompression: 2-Dimensional Operative Video. <i>Operative Neurosurgery</i> , 2021, 21, E452-E453.	0.8	5
124	Increased sensitivity to traumatic axonal injury on postconcussion diffusion tensor imaging scans in National Football League players by using premorbid baseline scans. <i>Journal of Neurosurgery</i> , 2020, 133, 1063-1071.	1.6	5
125	Minimally Invasive 2D Navigation-Assisted Treatment of Thoracolumbar Spinal Fractures in East Africa: A Case Report. <i>Cureus</i> , 2016, 8, e507.	0.5	5
126	Innovative Biological Treatment Methods for Degenerative Disc Disease. <i>World Neurosurgery</i> , 2022, 157, 282-299.	1.3	5



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127	Critical care of neurotrauma. <i>Current Neurology and Neuroscience Reports</i> , 2004, 4, 481-488.	4.2	4
128	Pial Arterial Response to Topical Verapamil in Acute Closed Cranial Windows in Rabbits. <i>Anesthesia and Analgesia</i> , 2005, 100, 1140-1146.	2.2	4
129	Minimally Invasive Treatment for a Sacral Tarlov Cyst Through Tubular Retractors. <i>World Neurosurgery</i> , 2017, 108, 993.e9-993.e11.	1.3	4
130	Superficial Siderosis of Central Nervous System as Primary Clinical Manifestation Secondary to Intradural Thoracic Disk Herniation. <i>World Neurosurgery</i> , 2018, 119, 40-44.	1.3	4
131	Less Invasive Cervical Decompression via Unilateral Tubular Laminotomy Using 3-Dimensional Total Navigation: 2-Dimensional Operative Video. <i>Operative Neurosurgery</i> , 2020, 19, E418-E418.	0.8	4
132	Quantitative Gross and CT measurements of Cadaveric Cervical Vertebrae (C3 – C6) as Guidelines for the Lateral mass screw fixation. <i>International Journal of Spine Surgery</i> , 2016, 10, 43.	1.5	4
133	Challenges in the Development of Biological Approaches for the Treatment of Degenerative Disc Disease. <i>World Neurosurgery</i> , 2022, 157, 274-281.	1.3	4
134	Pediatric Hydrocephalus in Northwest Tanzania: A Descriptive Cross-Sectional Study of Clinical Characteristics and Early Surgical Outcomes from the Bugando Medical Centre. <i>World Neurosurgery</i> , 2022, 161, e339-e346.	1.3	4
135	Traumatic Brain Injury and Use of Hypertonic Solutions. <i>Transfusion Alternatives in Transfusion Medicine</i> , 2005, 6, 59-68.	0.2	3
136	Ultra-early hyperosmolar treatment in traumatic brain injury: Will surgery soon be old-school?*. <i>Critical Care Medicine</i> , 2008, 36, 642-643.	0.9	3
137	Electromagnetic Navigation in Minimally Invasive Spine Surgery: Results of a Cadaveric Study to Evaluate Percutaneous Pedicle Screw Insertion. <i>International Journal of Spine Surgery</i> , 2008, 2, 43-47.	1.5	3
138	Safety and Feasibility of DTRAX Cervical Cages in the Atlantoaxial Joint for C1/2 Stabilization. <i>Operative Neurosurgery</i> , 2022, 22, 322-327.	0.8	3
139	Challenges Hindering Widespread Adoption of Minimally Invasive Spinal Surgery. <i>World Neurosurgery</i> , 2022, 163, 228-232.	1.3	3
140	Even in trauma, time is brain*. <i>Critical Care Medicine</i> , 2008, 36, 2951-2952.	0.9	2
141	Best Practices in Prevention, Detection, and Treatment of Colorectal Perforations During Axial Lumbar Interbody Fusion. <i>Techniques in Orthopaedics</i> , 2012, 27, 209-217.	0.2	2
142	Rapid development of minimally invasive spinal surgery: exciting advancements and challenges. <i>Annals of Translational Medicine</i> , 2018, 6, 98-98.	1.7	2
143	Neural decompression in challenging cases: advantages and disadvantages. <i>Journal of Neurosurgical Sciences</i> , 2019, 63, 541-547.	0.6	2
144	Lumbar Giant Disk Herniations Treated With a Unilateral Approach for Bilateral Decompression. <i>Operative Neurosurgery</i> , 2022, 23, 60-66.	0.8	2

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145	Transforaminal Lumbar Interbody Fusion (TLIF). , 2019, , 59-62.		1
146	Minimally Invasive Posterior Cervical Foraminotomy Using 3-Dimensional Total Navigation: 2-Dimensional Operative Video. Operative Neurosurgery, 2020, 20, E138.	0.8	1
147	Biological Treatment Approaches for Degenerative Disc Disease: Injectable Biomaterials and Bioartificial Disc Replacement. , 2021, , 171-195.		1
148	Commentary on "Robot-Guided Transforaminal Versus Robot-Guided Posterior Lumbar Interbody Fusion for Lumbar Degenerative Disease". Neurosurgery, 2021, 18, 106-108.	2.9	1
149	Intraoperative Simulation: Team Training for Resuscitation While Using Intraoperative Computed Tomography: 2-Dimensional Operative Video. Operative Neurosurgery, 2021, 21, E546-E547.	0.8	1
150	Image Guidance for Minimally Invasive Deformity Surgery. , 2014, , 85-95.		1
151	History and Evolution of Minimally Invasive Spine Surgery. , 2019, , 3-17.		1
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