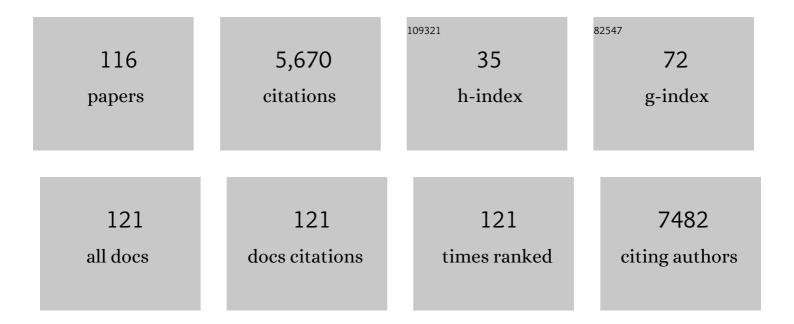
Wilson Z Ray

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	338 Diffusion Basis Spectrum Imaging (DBSI) Prognosticates Outcomes for Cervical Spondylotic Myelopathy after Surgery. Journal of Clinical and Translational Science, 2022, 6, 62-62.	0.6	ο
2	Analysis of combined clinical and diffusion basis spectrum imaging metrics to predict the outcome of chronic cervical spondylotic myelopathy following cervical decompression surgery. Journal of Neurosurgery: Spine, 2022, 37, 588-598.	1.7	2
3	Soft, bioresorbable coolers for reversible conduction block of peripheral nerves. Science, 2022, 377, 109-115.	12.6	62
4	Multi-modal biomarkers of low back pain: A machine learning approach. NeuroImage: Clinical, 2021, 29, 102530.	2.7	30
5	Variability in Surgeon Approaches to Emotional Recovery and Expectation Setting After Adult Traumatic Brachial Plexus Injury. Journal of Hand Surgery Global Online, 2021, 3, 30-35.	0.8	9
6	A qualitative study of life satisfaction after surgery for adult traumatic brachial plexus injury. Bone & Joint Open, 2021, 2, 9-15.	2.6	10
7	High-Frequency Alternating Current Block Using Macro-Sieve Electrodes: A Pilot Study. Cureus, 2021, 13, e13728.	0.5	2
8	Administrative Data Are Unreliable for Ranking Hospital Performance Based on Serious Complications After Spine Fusion. Spine, 2021, 46, 1181-1190.	2.0	2
9	Human cells and networks of pain: Transforming pain target identification and therapeutic development. Neuron, 2021, 109, 1426-1429.	8.1	47
10	Decompression of Lumbar Central Spinal Canal Stenosis Following Minimally Invasive Transforaminal Lumbar Interbody Fusion. Clinical Spine Surgery, 2021, 34, E439-E449.	1.3	4
11	Application of electrical stimulation for peripheral nerve regeneration: Stimulation parameters and future horizons. Interdisciplinary Neurosurgery: Advanced Techniques and Case Management, 2021, 24, 101117.	0.3	27
12	Comparison of cost and complication rates for profiling hospital performance in lumbar fusion for Spondylolisthesis. Spine Journal, 2021, 21, 2026-2034.	1.3	0
13	Functional Disruptions of the Brain in Low Back Pain: A Potential Imaging Biomarker of Functional Disability. Frontiers in Neurology, 2021, 12, 669076.	2.4	11
14	Cervical Total Disc Replacement. Neurosurgery Clinics of North America, 2021, 32, 473-481.	1.7	10
15	Extended tulip cervical reduction screws to restore alignment in traumatic atlantoaxial dislocation after type 3 odontoid fracture: illustrative case. Journal of Neurosurgery Case Lessons, 2021, 2, .	0.3	0
16	Introduction. Awake spinal surgery: where are we now and where are we going. Neurosurgical Focus, 2021, 51, E1.	2.3	2
17	Stretchable, dynamic covalent polymers for soft, long-lived bioresorbable electronic stimulators designed to facilitate neuromuscular regeneration. Nature Communications, 2020, 11, 5990.	12.8	144
18	Bioresorbable Wireless Sensors as Temporary Implants for In Vivo Measurements of Pressure. Advanced Functional Materials, 2020, 30, 2003754.	14.9	53

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19	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. Science Advances, 2020, 6, eabb1093.	10.3	87
20	Social Support and Coping Strategies in Patients with Traumatic Brachial Plexus Injury. HSS Journal, 2020, 16, 468-474.	1.7	2
21	Advances in Techniques and Technology in Minimally Invasive Lumbar Interbody Spinal Fusion. JBJS Reviews, 2020, 8, e0171-e0171.	2.0	9
22	Transfacet Minimally Invasive Transforaminal Lumbar Interbody Fusion With an Expandable Interbody Device—Part I: 2-Dimensional Operative Video and Technical Report. Operative Neurosurgery, 2020, 19, E473-E479.	0.8	3
23	Transfacet Minimally Invasive Transforaminal Lumbar Interbody Fusion With an Expandable Interbody Device—Part II: Consecutive Case Series. Operative Neurosurgery, 2020, 19, 518-529.	0.8	8
24	Bioresorbable, Wireless, Passive Sensors as Temporary Implants for Monitoring Regional Body Temperature. Advanced Healthcare Materials, 2020, 9, e2000942.	7.6	87
25	Materials, Mechanics Designs, and Bioresorbable Multisensor Platforms for Pressure Monitoring in the Intracranial Space. Advanced Functional Materials, 2020, 30, 1910718.	14.9	53
26	Incidence of Surgically Treated Brachial Plexus Injury in Privately Insured Adults Under 65 Years of Age in the USA. HSS Journal, 2020, 16, 339-343.	1.7	9
27	Direct Cost of Surgically Treated Adult Traumatic Brachial Plexus Injuries. Journal of Hand Surgery Global Online, 2020, 2, 77-79.	0.8	14
28	Project management for developing a spine "enhanced recovery after surgery" program in a large university-affiliated hospital. Journal of Neurosurgical Sciences, 2020, 64, 206-212.	0.6	2
29	Frequency and Risk Factors for Prolonged Opioid Prescriptions After Surgery for Brachial Plexus Injury. Journal of Hand Surgery, 2019, 44, 662-668.e1.	1.6	14
30	Bioresorbable optical sensor systems for monitoring of intracranial pressure and temperature. Science Advances, 2019, 5, eaaw1899.	10.3	146
31	Nerve transfer as a novel treatment for West Nile virus-associated acute flaccid paralysis. Journal of the Neurological Sciences, 2019, 407, 116502.	0.6	1
32	Novel Nerve Transfers for Motor and Sensory Restoration in High Cervical Spinal Cord Injury. World Neurosurgery, 2019, 128, 611-615.e1.	1.3	10
33	Indirect Cost of Traumatic Brachial Plexus Injuries in the United States. Journal of Bone and Joint Surgery - Series A, 2019, 101, e80.	3.0	36
34	Validation of the Disabilities of the Arm, Shoulder, and Hand in Patients Undergoing Cervical Spine Surgery. Spine, 2019, 44, 1676-1684.	2.0	3
35	Noninvasive Quantification of Axonal Loss in the Presence of Tissue Swelling in Traumatic Spinal Cord Injury Mice. Journal of Neurotrauma, 2019, 36, 2308-2315.	3.4	19
36	Bioresorbable pressure sensors protected with thermally grown silicon dioxide for the monitoring of chronic diseases and healing processes. Nature Biomedical Engineering, 2019, 3, 37-46.	22.5	185

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37	Cost-Effectiveness Analysis of Combined Dual Motor Nerve Transfers versus Alternative Surgical and Nonsurgical Management Strategies to Restore Shoulder Function Following Upper Brachial Plexus Injury. Neurosurgery, 2019, 84, 362-377.	1.1	12
38	Therapeutic electrical stimulation of injured peripheral nerve tissue using implantable thin-film wireless nerve stimulators. Journal of Neurosurgery, 2019, 130, 486-495.	1.6	20
39	Use of a Synthetic Dura Substitute in the Skull Base Reconstruction following Transsphenoidal Hypophysectomy. , 2019, 80, .		0
40	Electrical Stimulation and Bone Healing: A Review of Current Technology and Clinical Applications. IEEE Reviews in Biomedical Engineering, 2018, 11, 217-232.	18.0	64
41	Prevalence, management, and outcome of problem residents among neurosurgical training programs in the United States. Journal of Neurosurgery, 2018, 130, 322-326.	1.6	18
42	The natural history of complete spinal cord injury: a pooled analysis of 1162 patients and a meta-analysis of modern data. Journal of Neurosurgery: Spine, 2018, 28, 436-443.	1.7	39
43	CVD-grown monolayer MoS2 in bioabsorbable electronics and biosensors. Nature Communications, 2018, 9, 1690.	12.8	155
44	Spinal Cord Injury Disrupts Resting-State Networks in the Human Brain. Journal of Neurotrauma, 2018, 35, 864-873.	3.4	51
45	Fractional anisotropy to quantify cervical spondylotic myelopathy severity. Journal of Neurosurgical Sciences, 2018, 62, 406-412.	0.6	14
46	Wireless bioresorbable electronic system enables sustained nonpharmacological neuroregenerative therapy. Nature Medicine, 2018, 24, 1830-1836.	30.7	331
47	Comparative analysis of a fully-synthetic nanofabricated dura substitute and bovine collagen dura substitute in a large animal model of dural repair. Interdisciplinary Neurosurgery: Advanced Techniques and Case Management, 2018, 13, 145-150.	0.3	13
48	Novel nanofabricated dura substitute effectively repairs dural defects independent of defect size in a canine duraplasty model. Interdisciplinary Neurosurgery: Advanced Techniques and Case Management, 2018, 14, 150-155.	0.3	1
49	Readmission after spinal cord injury: analysis of an institutional cohort of 795 patients. Journal of Neurosurgical Sciences, 2018, 62, 265-270.	0.6	12
50	Population-based approaches to treatment and readmission after spinal cord injury. Journal of Neurosurgical Sciences, 2018, 62, 107-115.	0.6	3
51	An update on addressing important peripheral nerve problems: challenges and potential solutions. Acta Neurochirurgica, 2017, 159, 1765-1773.	1.7	18
52	Preoperative Fiducial Marker Placement in the Thoracic Spine. Spine, 2017, 42, E624-E628.	2.0	15
53	Editorial: Autologous Schwann cells. Neurosurgical Focus, 2017, 42, E3.	2.3	0
54	New Clinical-Pathological Classification of Intraspinal Injury Following Traumatic Acute Complete Thoracic Spinal Cord Injury. Neurosurgery, 2017, 64, 105-109.	1.1	21

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55	In Reply: Cubital Tunnel Syndrome: Incidence and Demographics in a National Administrative Database. Neurosurgery, 2017, 81, E63-E63.	1.1	1
56	Cubital Tunnel Syndrome: Incidence and Demographics in a National Administrative Database. Neurosurgery, 2017, 80, 417-420.	1.1	78
57	Diffusion Assessment of Cortical Changes, Induced by Traumatic Spinal Cord Injury. Brain Sciences, 2017, 7, 21.	2.3	28
58	Interfacing peripheral nerve with macro-sieve electrodes following spinal cord injury. Neural Regeneration Research, 2017, 12, 906.	3.0	7
59	Magnetic Resonance Imaging Biomarker of Axon Loss Reflects Cervical Spondylotic Myelopathy Severity. Spine, 2016, 41, 751-756.	2.0	32
60	Serial assessment of functional recovery following nerve injury using implantable thinâ€film wireless nerve stimulators. Muscle and Nerve, 2016, 54, 1114-1119.	2.2	14
61	Thoracoscopic Vertebrectomy for Thoracolumbar Junction Fractures and Tumors. Clinical Spine Surgery, 2016, 29, E344-E350.	1.3	8
62	Intervertebral Micro Access Surgery for Transforaminal Lumbar Interbody Fusion. Operative Neurosurgery, 2016, 12, 203-213.	0.8	1
63	Bioresorbable silicon electronic sensors for the brain. Nature, 2016, 530, 71-76.	27.8	778
64	Motor Nerve Transfers. Neurosurgery, 2016, 78, 1-26.	1.1	76
65	Simpson Grade I-III Resection of Spinal Atypical (World Health Organization Grade II) Meningiomas is Associated With Symptom Resolution and Low Recurrence. Neurosurgery, 2015, 76, 739-746.	1.1	36
66	Vitamin D Levels and 1-Year Fusion Outcomes in Elective Spine Surgery. Spine, 2015, 40, 1536-1541.	2.0	65
67	An Update on Civilian Spinal Gunshot Wounds. Spine, 2015, 40, 450-461.	2.0	31
68	Risks and outcomes of spinal deformity surgery in Chiari malformation, Type 1, with syringomyelia versus adolescent idiopathic scoliosis. Spine Journal, 2015, 15, 2002-2008.	1.3	34
69	Prevalence of Vitamin D Deficiency in Patients Undergoing Elective Spine Surgery: A Cross-Sectional Analysis. World Neurosurgery, 2015, 83, 1114-1119.	1.3	40
70	Wireless Optofluidic Systems for Programmable InÂVivo Pharmacology and Optogenetics. Cell, 2015, 162, 662-674.	28.9	417
71	Transfer of the Brachialis to the Anterior Interosseous Nerve as a Treatment Strategy for Cervical Spinal Cord Injury: Technical Note. Global Spine Journal, 2015, 5, 110-117.	2.3	22
72	Increased Spasticity From a Fracture in the Baclofen Catheter Caused by Charcot Spine: Case Report. Archives of Physical Medicine and Rehabilitation, 2015, 96, 697-701.	0.9	3

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73	Comparison of structural allograft and traditional autograft technique in occipitocervical fusion: radiological and clinical outcomes from a single institution. Journal of Neurosurgery: Spine, 2015, 23, 144-152.	1.7	16
74	Onyx is associated with poor venous penetration in the treatment of spinal dural arteriovenous fistulas. Journal of NeuroInterventional Surgery, 2014, 6, 536-540.	3.3	28
75	Schwann cells seeded in acellular nerve grafts improve functional recovery. Muscle and Nerve, 2014, 49, 267-276.	2.2	64
76	Clinical outcomes of unstable thoracolumbar junction burst fractures: combined posterior short-segment correction followed by thoracoscopic corpectomy and fusion. Acta Neurochirurgica, 2013, 155, 1179-1186.	1.7	15
77	Surgery for Idiopathic Scoliosis in Adolescents versus Young Adults: A Matched Cohort Analysis. Spine Journal, 2013, 13, S35-S36.	1.3	0
78	Stereotactic navigation with the O-arm for placement of S-2 alar iliac screws in pelvic lumbar fixation. Journal of Neurosurgery: Spine, 2013, 18, 490-495.	1.7	54
79	Subarachnoid Hemorrhage from a Thoracic Radicular Artery Pseudoaneurysm after Methamphetamine and Synthetic Cannabinoid Abuse: Case Report. Global Spine Journal, 2013, 3, 119-123.	2.3	10
80	Developing an Anterior Cervical Diskectomy and Fusion Simulator for Neurosurgical Resident Training. Neurosurgery, 2013, 73, S100-S106.	1.1	57
	Transient Obstructive Hydrocenhalus due to Intraventricular Hemorrhage: A Case Report and Review		

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91	Nerve transfers for the restoration of hand function after spinal cord injury. Journal of Neurosurgery, 2012, 117, 176-185.	1.6	80
92	Medial Pectoral Nerve to Axillary Nerve Neurotization following Traumatic Brachial Plexus Injuries: Indications and Clinical Outcomes. Hand, 2012, 7, 59-65.	1.2	31
93	Nerve Problems in the Lower Extremity. Foot and Ankle Clinics, 2011, 16, 243-254.	1.3	18
94	Clinical Outcomes Following Median to Radial Nerve Transfers. Journal of Hand Surgery, 2011, 36, 201-208.	1.6	114
95	Nerve Transfer to the Triceps After Brachial Plexus Injury: Report of Four Cases. Journal of Hand Surgery, 2011, 36, 398-405.	1.6	38
96	Costimulation blockade inhibits the indirect pathway of allorecognition in nerve allograft rejection. Muscle and Nerve, 2011, 43, 120-126.	2.2	2
97	Acellular nerve allografts in peripheral nerve regeneration: A comparative study. Muscle and Nerve, 2011, 44, 221-234.	2.2	183
98	Double fascicular nerve transfer to the biceps and brachialis muscles after brachial plexus injury: clinical outcomes in a series of 29 cases. Journal of Neurosurgery, 2011, 114, 1520-1528.	1.6	86
99	Two-level motor nerve transfer for the treatment of long thoracic nerve palsy. Journal of Neurosurgery, 2011, 115, 858-864.	1.6	18
100	Effect of cold nerve allograft preservation on antigen presentation and rejection. Journal of Neurosurgery, 2011, 114, 256-262.	1.6	16
101	Combined endovascular embolization and stereotactic radiosurgery in the treatment of large arteriovenous malformations. Journal of Neurosurgery, 2011, 114, 1758-1767.	1.6	94
102	The differential effects of pathway- versus target-derived glial cell line–derived neurotrophic factor on peripheral nerve regeneration. Journal of Neurosurgery, 2010, 113, 102-109.	1.6	20
103	Early Endovascular Coiling of Posterior Communicating Artery Saccular Aneurysm in the Setting of Staphylococcus Bacteremia. Neurosurgery, 2010, 66, E847.	1.1	8
104	Functional Recovery following an End to Side Neurorrhaphy of the Accessory Nerve to the Suprascapular Nerve: Case Report. Hand, 2010, 5, 313-317.	1.2	13
105	The role of T helper cell differentiation in promoting nerve allograft survival with costimulation blockade. Journal of Neurosurgery, 2010, 112, 386-393.	1.6	6
106	Management of nerve gaps: Autografts, allografts, nerve transfers, and end-to-side neurorrhaphy. Experimental Neurology, 2010, 223, 77-85.	4.1	380
107	Radially Aligned, Electrospun Nanofibers as Dural Substitutes for Wound Closure and Tissue Regeneration Applications. ACS Nano, 2010, 4, 5027-5036.	14.6	268
108	Isolated cerebellar Rosai-Dorfman granuloma mimicking Lhermitte-Duclos disease. Journal of Neurosurgery: Pediatrics, 2009, 4, 118-120.	1.3	13

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109	Incidence of deep venous thrombosis after subarachnoid hemorrhage. Journal of Neurosurgery, 2009, 110, 1010-1014.	1.6	84
110	Clinicopathologic features of recurrent dysembryoplastic neuroepithelial tumor and rare malignant transformation: a report of 5 cases and review of the literature. Journal of Neuro-Oncology, 2009, 94, 283-292.	2.9	79
111	Nerve Allotransplantation as it Pertains to Composite Tissue Transplantation. Hand, 2009, 4, 239-244.	1.2	52
112	Transcardial perfusion versus immersion fixation for assessment of peripheral nerve regeneration. Journal of Neuroscience Methods, 2009, 184, 303-309.	2.5	36
113	Near-complete resolution of angiographic cerebral vasospasm after extreme elevation of mean arterial pressure: case report. World Neurosurgery, 2009, 72, 347-353.	1.3	8
114	Anterior cervical arthrodesis using an osteoconductive scaffold: The use of beta-tricalcium phosphate with local bone marrow aspirate in over 100 patients. SAS Journal, 2009, 3, 114-117.	1.3	7
115	Pseudotumor cerebri following tapered corticosteroid treatment in an 8-month-old infant. Journal of Neurosurgery: Pediatrics, 2008, 1, 88-90.	1.3	11
116	Anatomic visualization with ultrasound-assisted intracranial image guidance in neurosurgery: a report of 30 patients1. Journal of the American College of Surgeons, 2004, 199, 338-343.	0.5	6