Daniel C Lu

List of Publications by Year
in descending order

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52 papers	2,649 citations	201385 27 h-index	223531 46 g-index
53 all docs	53 docs citations	53 times ranked	2725 citing authors

#	Article	IF	Citations
1	C2 translaminar screw fixation in pediatric occipitocervical fusion. Child's Nervous System, 2022, 38, 1125-1135.	0.6	1
2	Minimal handgrip force is needed for transcutaneous electrical stimulation to improve hand functions of patients with severe spinal cord injury. Scientific Reports, 2022, 12, 7733.	1.6	10
3	Epidural electrical stimulation of the cervical spinal cord opposes opioidâ€induced respiratory depression. Journal of Physiology, 2022, 600, 2973-2999.	1.3	4
4	Aquaporin-4 Reduces Post-Traumatic Seizure Susceptibility by Promoting Astrocytic Glial Scar Formation in Mice. Journal of Neurotrauma, 2021, 38, 1193-1201.	1.7	55
5	Machine learning classifies predictive kinematic features in a mouse model of neurodegeneration. Scientific Reports, 2021, 11, 3950.	1.6	9
6	Serotonergic Facilitation of Forelimb Functional Recovery in Rats with Cervical Spinal Cord Injury. Neurotherapeutics, 2021, 18, 1226-1243.	2.1	4
7	Engaging cervical spinal circuitry with non-invasive spinal stimulation and buspirone to restore hand function in chronic motor complete patients. Scientific Reports, 2018, 8, 15546.	1.6	63
8	Aspiration of sterile post-operative spinal fluid collections using low-dose computed tomography guidance. Journal of Clinical Neuroscience, 2018, 57, 202-207.	0.8	2
9	A Proof-of-Concept Study of Transcutaneous Magnetic Spinal Cord Stimulation for Neurogenic Bladder. Scientific Reports, 2018, 8, 12549.	1.6	34
10	Electrical neuromodulation of the cervical spinal cord facilitates forelimb skilled function recovery in spinal cord injured rats. Experimental Neurology, 2017, 291, 141-150.	2.0	63
11	Rehabilitation of hand function after spinal cord injury using a novel handgrip device: a pilot study. Journal of NeuroEngineering and Rehabilitation, 2017, 14, 22.	2.4	13
12	Primary lung metastasis of glioblastoma multiforme with epidural spinal metastasis: Case report. Journal of Clinical Neuroscience, 2017, 41, 97-99.	0.8	10
13	Weight Bearing Over-ground Stepping in an Exoskeleton with Non-invasive Spinal Cord Neuromodulation after Motor Complete Paraplegia. Frontiers in Neuroscience, 2017, 11, 333.	1.4	131
14	Cervical artificial disc extrusion after a paragliding accident. , 2017, 8, 138.		6
15	Quantitative assessment of hand motor function in cervical spinal disorder patients using target tracking tests. Journal of Rehabilitation Research and Development, 2016, 53, 1007-1022.	1.6	13
16	Modulation of respiratory output by cervical epidural stimulation in the anesthetized mouse. Journal of Applied Physiology, 2016, 121, 1272-1281.	1.2	9
17	Engaging Cervical Spinal Cord Networks to Reenable Volitional Control of Hand Function in Tetraplegic Patients. Neurorehabilitation and Neural Repair, 2016, 30, 951-962.	1.4	123
18	Postoperative Cerebrospinal Fluid Leak Rates with Subfascial Epidural Drain Placement after Intentional Durotomy in Spine Surgery. Global Spine Journal, 2016, 6, 780-785.	1.2	11

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19	Objectively quantifying walking ability in degenerative spinal disorder patients using sensor equipped smart shoes. Medical Engineering and Physics, 2016, 38, 442-449.	0.8	33
20	Molecular and cellular development of spinal cord locomotor circuitry. Frontiers in Molecular Neuroscience, 2015, 8, 25.	1.4	163
21	Use of multivariate linear regression and support vector regression to predict functional outcome after surgery for cervical spondylotic myelopathy. Journal of Clinical Neuroscience, 2015, 22, 1444-1449.	0.8	32
22	Noninvasive Reactivation of Motor Descending Control after Paralysis. Journal of Neurotrauma, 2015, 32, 1968-1980.	1.7	236
23	Strategies and lessons in spinal cord injury rehabilitation. Current Physical Medicine and Rehabilitation Reports, 2015, 3, 206-213.	0.3	0
24	Initiation and modulation of locomotor circuitry output with multisite transcutaneous electrical stimulation of the spinal cord in noninjured humans. Journal of Neurophysiology, 2015, 113, 834-842.	0.9	120
25	Initiation of Bladder Voiding with Epidural Stimulation in Paralyzed, Step Trained Rats. PLoS ONE, 2014, 9, e108184.	1.1	56
26	Clinical results of cervical laminectomy and fusion for the treatment of cervical spondylotic myelopathy in 58 consecutive patients. , 2014, 5, 133.		12
27	Rotational vertebral artery occlusion secondary to adjacent-level degeneration following anterior cervical discectomy and fusion. Journal of Neurosurgery: Spine, 2014, 20, 714-721.	0.9	21
28	Neuromodulation of the Lumbar Spinal Locomotor Circuit. Neurosurgery Clinics of North America, 2014, 25, 15-23.	0.8	20
29	Utilization of a novel digital measurement tool for quantitative assessment of upper extremity motor dexterity: a controlled pilot study. Journal of NeuroEngineering and Rehabilitation, 2014, 11, 121.	2.4	5
30	Objective assessment of overexcited hand movements using a lightweight sensory device. , 2013, , .		2
31	Surgical seroma formation following posterior cervical laminectomy and fusion without rhBMP-2. Journal of Neurosurgery: Spine, 2013, 19, 297-300.	0.9	15
32	Comparison of operating field sterility in open versus minimally invasive microdiscectomies of the lumbar spine. , 2013, 4, 295.		6
33	Minimally invasive surgical decompression for lumbar spinal metastases. , 2013, 4, 78.		2
34	A comparison of mini-open and open approaches for resection of thoracolumbar intradural spinal tumors. Journal of Neurosurgery: Spine, 2011, 14, 758-764.	0.9	77
35	Minimally invasive compared to open microdiscectomy for lumbar disc herniation. Journal of Clinical Neuroscience, 2011, 18, 81-84.	0.8	42
36	Rotational Vertebral Artery Occlusionâ€"Series of 9 Cases. Neurosurgery, 2010, 67, 1066-1072.	0.6	57

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37	Free-hand thoracic pedicle screws placed by neurosurgery residents: a CT analysis. European Spine Journal, 2010, 19, 821-827.	1.0	41
38	The Transspinous Mini-Open Approach for Resection of Intradural Spinal Neoplasms: Cadaveric Feasibility Study and Report of 3 Clinical Cases. World Neurosurgery, 2010, 74, 195-199.	0.7	11
39	Clinical presentation and surgical management of intramedullary spinal cord cavernous malformations. Neurosurgical Focus, 2010, 29, E12.	1.0	40
40	Mini-open removal of extradural foraminal tumors of the lumbar spine. Journal of Neurosurgery: Spine, 2009, 10, 46-50.	0.9	44
41	Minimally invasive decompression of a suboccipital osseous prominence causing rotational vertebral artery occlusion. Journal of Neurosurgery: Pediatrics, 2009, 4, 191-195.	0.8	22
42	THE USE OF ALLOGRAFT OR AUTOGRAFT AND EXPANDABLE TITANIUM CAGES FOR THE TREATMENT OF VERTEBRAL OSTEOMYELITIS. Neurosurgery, 2009, 64, 122-130.	0.6	126
43	Esophageal erosion 9 years after anterior cervical plate implantation. World Neurosurgery, 2008, 69, 310-312.	1.3	43
44	Cerebral salt wasting and elevated brain natriuretic peptide levels after traumatic brain injury: 2 case reports. World Neurosurgery, 2008, 69, 226-229.	1.3	32
45	Impaired olfaction in mice lacking aquaporinâ€4 water channels. FASEB Journal, 2008, 22, 3216-3223.	0.2	93
46	Corpectomy followed by the placement of instrumentation with titanium cages and recombinant human bone morphogenetic proteinâ€“2 for vertebral osteomyelitis. Journal of Neurosurgery: Spine, 2007, 6, 23-30.	0.9	43
47	Bone morphogenetic protein for salvage fusion in an infant with Down syndrome and craniovertebral instability. Journal of Neurosurgery: Pediatrics, 2007, 106, 480-483.	0.8	13
48	Flatback Syndrome. Neurosurgery Clinics of North America, 2007, 18, 289-294.	0.8	52
49	Amyloid ? protein toxicity mediated by the formation of amyloid-? protein precursor complexes. Annals of Neurology, 2003, 54, 781-789.	2.8	87
50	Caspase cleavage of the amyloid precursor protein modulates amyloid Î²-protein toxicity. Journal of Neurochemistry, 2003, 87, 733-741.	2.1	91
51	The Amyloidogenic Pathway of Amyloid Precursor Protein (APP) Is Independent of Its Cleavage by Caspases. Journal of Biological Chemistry, 2001, 276, 29045-29050.	1.6	55
52	A second cytotoxic proteolytic peptide derived from amyloid Î²-protein precursor. Nature Medicine, 2000, 6, 397-404.	15.2	396