Henrich Cheng

List of Publications by Year
in descending order

131 papers	3,091 citations	186265 28 h-index	197818 49 g-index
133 all docs	133 docs citations	133 times ranked	3848 citing authors

#	Article	IF	Citations
1	Natural compounds as potential adjuvants to cancer therapy: Preclinical evidence. British Journal of Pharmacology, 2020, 177, 1409-1423.	5.4	217
2	In Vitro Differentiation of Size‐Sieved Stem Cells into Electrically Active Neural Cells. Stem Cells, 2002, 20, 522-529.	3.2	143
3	Gait Analysis of Adult Paraplegic Rats after Spinal Cord Repair. Experimental Neurology, 1997, 148, 544-557.	4.1	118
4	Natural Compounds from Herbs that can Potentially Execute as Autophagy Inducers for Cancer Therapy. International Journal of Molecular Sciences, 2017, 18, 1412.	4.1	113
5	Neuroprotection of glial cell line-derived neurotrophic factor in damaged spinal cords following contusive injury. Journal of Neuroscience Research, 2002, 69, 397-405.	2.9	91
6	Recovery of neurological function of ischemic stroke by application of conditioned medium of bone marrow mesenchymal stem cells derived from normal and cerebral ischemia rats. Journal of Biomedical Science, 2014, 21, 5.	7.0	91
7	Acid Fibroblast Growth Factor and Peripheral Nerve Grafts Regulate Th2 Cytokine Expression, Macrophage Activation, Polyamine Synthesis, and Neurotrophin Expression in Transected Rat Spinal Cords. Journal of Neuroscience, 2011, 31, 4137-4147.	3.6	84
8	New nerve regeneration strategy combining laminin-coated chitosan conduits and stem cell therapy. Acta Biomaterialia, 2013, 9, 6606-6615.	8.3	79
9	Acidic fibroblast growth factor for repair of human spinal cord injury: a clinical trial. Journal of Neurosurgery: Spine, 2011, 15, 216-227.	1.7	74
10	Anti-oxidative, anti-apoptotic, and pro-angiogenic effects mediate functional improvement by sonic hedgehog against focal cerebral ischemia in rats. Experimental Neurology, 2013, 247, 680-688.	4.1	72
11	Involvement of Acidic Fibroblast Growth Factor in Spinal Cord Injury Repair Processes Revealed by a Proteomics Approach. Molecular and Cellular Proteomics, 2008, 7, 1668-1687.	3.8	71
12	Spinal Cord Repair With Acidic Fibroblast Growth Factor as a Treatment for a Patient With Chronic Paraplegia. Spine, 2004, 29, E284-E288.	2.0	70
13	Chondroitinase ABC promotes axonal re-growth and behavior recovery in spinal cord injury. Biochemical and Biophysical Research Communications, 2006, 349, 963-968.	2.1	69
14	Nerve repair using acidic fibroblast growth factor in human cervical spinal cord injury: a preliminary Phase I clinical study. Journal of Neurosurgery: Spine, 2008, 8, 208-214.	1.7	58
15	Gene transfer of glial cell line-derived neurotrophic factor promotes functional recovery following spinal cord contusion. Experimental Neurology, 2003, 183, 508-515.	4.1	54
16	Ability of GDNF to diminish free radical production leads to protection against kainate-induced excitotoxicity in hippocampus. Hippocampus, 2004, 14, 77-86.	1.9	53
17	Silymarin protects spinal cord and cortical cells against oxidative stress and lipopolysaccharide stimulation. Neurochemistry International, 2010, 57, 867-875.	3.8	52
18	Laminin-incorporated nerve conduits made by plasma treatment for repairing spinal cord injury. Biochemical and Biophysical Research Communications, 2007, 357, 938-944.	2.1	48

#	Article	IF	Citations
19	Attenuating Spinal Cord Injury by Conditioned Medium from Bone Marrow Mesenchymal Stem Cells. Journal of Clinical Medicine, 2019, 8, 23.	2.4	42
20	Risk of spinal cord injury in patients with cervical spondylotic myelopathy and ossification of posterior longitudinal ligament: a national cohort study. Neurosurgical Focus, 2016, 40, E4.	2.3	39
21	Effects of Combinatorial Treatment with Pituitary Adenylate Cyclase Activating Peptide and Human Mesenchymal Stem Cells on Spinal Cord Tissue Repair. PLoS ONE, 2010, 5, e15299.	2.5	38
22	Can segmental mobility be increased by cervical arthroplasty?. Neurosurgical Focus, 2017, 42, E3.	2.3	36
23	Primary Endoscopic Transnasal Transsphenoidal Surgery for Giant Pituitary Adenoma. World Neurosurgery, 2016, 91, 121-128.	1.3	34
24	The superiority of conditioned medium derived from rapidly expanded mesenchymal stem cells for neural repair. Stem Cell Research and Therapy, 2019, 10, 390.	5.5	34
25	Dual effect of adenovirusâ€mediated transfer of BMP7 in mixed neuronâ€glial cultures: Neuroprotection and cellular differentiation. Journal of Neuroscience Research, 2007, 85, 2950-2959.	2.9	32
26	ENDOSCOPIC TRANSNASAL TRANSCLIVAL ODONTOIDECTOMY. Operative Neurosurgery, 2008, 63, ONSE92-ONSE94.	0.8	32
27	Electrospun Fibers as a Solidâ€State Realâ€Time Zinc Ion Sensor with High Sensitivity and Cell Medium Compatibility. Advanced Functional Materials, 2013, 23, 1566-1574.	14.9	31
28	Cervical Arthroplasty for Traumatic Disc Herniation: An Age- and Sex-matched Comparison with Anterior Cervical Discectomy and Fusion. BMC Musculoskeletal Disorders, 2015, 16, 228.	1.9	29
29	Local Delivery of High-Dose Chondroitinase ABC in the Sub-Acute Stage Promotes Axonal Outgrowth and Functional Recovery after Complete Spinal Cord Transection. PLoS ONE, 2015, 10, e0138705.	2.5	29
30	Characterization of a Fibrin Glueâ€“GDNF Slow-Release Preparation. Cell Transplantation, 1998, 7, 53-61.	2.5	28
31	Dynamic stabilization for L4â€“5 spondylolisthesis: comparison with minimally invasive transforaminal lumbar interbody fusion with more than 2 years of follow-up. Neurosurgical Focus, 2016, 40, E3.	2.3	28
32	Hybrid Corpectomy and Disc Arthroplasty for Cervical Spondylotic Myelopathy Caused by Ossification of Posterior Longitudinal Ligament and Disc Herniation. World Neurosurgery, 2016, 95, 22-30.	1.3	27
33	Radiological adjacent-segment degeneration in L4â€“5 spondylolisthesis: comparison between dynamic stabilization and minimally invasive transforaminal lumbar interbody fusion. Journal of Neurosurgery: Spine, 2018, 29, 250-258.	1.7	27
34	Fibrin Glue Used as an Adhesive Agent in CNS Tissues. Journal of Neural Transplantation & Plasticity, 1995, 5, 233-243.	0.7	26
35	The combination of peripheral nerve grafts and acidic fibroblast growth factor enhances arginase I and polyamine spermine expression in transected rat spinal cords. Biochemical and Biophysical Research Communications, 2007, 357, 1-7.	2.1	26
36	Increased Risk of Stroke in Patients of Concussion: A Nationwide Cohort Study. International Journal of Environmental Research and Public Health, 2017, 14, 230.	2.6	26

#	Article	IF	Citations
37	The neuroprotective effect of glial cell line-derived neurotrophic factor in fibrin glue against chronic focal cerebral ischemia in conscious rats. Brain Research, 2005, 1033, 28-33.	2.2	24
38	Dynesys dynamic stabilizationâ€“related facet arthrodesis. Neurosurgical Focus, 2016, 40, E4.	2.3	24
39	Should Cervical Disc Arthroplasty Be Done on Patients with Increased Intramedullary Signal Intensity on Magnetic Resonance Imaging?. World Neurosurgery, 2016, 89, 489-496.	1.3	24
40	Differences in fixation strength among constructs of atlantoaxial fixation. Journal of Neurosurgery: Spine, 2019, 30, 52-59.	1.7	23
41	Expression of neural cell adhesion molecule in spinal cords following a complete transection. Life Sciences, 2001, 68, 1005-1012.	4.3	22
42	Cervical root repair in adult rats after transection: recovery of forelimb motor function. Experimental Neurology, 2003, 180, 101-109.	4.1	21
43	PAL31 may play an important role as inflammatory modulator in the repair process of the spinal cord injury rat. Journal of Neurochemistry, 2009, 108, 1187-1197.	3.9	21
44	Adenoâ€associated virusâ€mediated human acidic fibroblast growth factor expression promotes functional recovery of spinal cordâ€“contused rats. Journal of Gene Medicine, 2011, 13, 283-289.	2.8	21
45	The Effect of Lumbar Lordosis on Screw Loosening in Dynesys Dynamic Stabilization: Four-Year Follow-Up with Computed Tomography. BioMed Research International, 2015, 2015, 1-8.	1.9	20
46	Functional improvement in chronic human spinal cord injury: Four years after acidic fibroblast growth factor. Scientific Reports, 2018, 8, 12691.	3.3	20
47	Forelimb muscle activity following nerve graft repair of ventral roots in the rat cervical spinal cord. Life Sciences, 2002, 71, 487-496.	4.3	19
48	Combined treatment using peripheral nerve graft and FGF-1: Changes to the glial environment and differential macrophage reaction in a complete transected spinal cord. Neuroscience Letters, 2008, 433, 163-169.	2.1	19
49	Acidic FGF enhances functional regeneration of adult dorsal roots. Life Sciences, 2004, 74, 1937-1943.	4.3	18
50	Gait analysis of spinal cord injured rats after delivery of chondroitinase ABC and adult olfactory mucosa progenitor cell transplantation. Neuroscience Letters, 2010, 472, 79-84.	2.1	18
51	The perceptions of natural compounds against dipeptidyl peptidase 4 in diabetes: fromin silicotoin vivo. Therapeutic Advances in Chronic Disease, 2019, 10, 204062231987530.	2.5	18
52	Acidic Fibroblast Growth Factor in Spinal Cord Injury. Neurospine, 2019, 16, 728-738.	2.9	18
53	Cervical disc arthroplasty for less-mobile discs. Journal of Neurosurgery: Spine, 2019, 31, 310-316.	1.7	18
54	A novel strategy for repairing preganglionic cervical root avulsion in brachial plexus injury by sural nerve grafting. Journal of Neurosurgery, 2009, 110, 775-785.	1.6	17

#	Article	IF	Citations
55	Primary Endoscopic Transnasal Transsphenoidal Surgery for Magnetic Resonance Imageâ€“Positive Cushing Disease: Outcomes of a Series over 14 Years. World Neurosurgery, 2015, 84, 772-779.	1.3	17
56	A Hybrid Dynamic Stabilization and Fusion System in Multilevel Lumbar Spondylosis. Neurospine, 2018, 15, 231-241.	2.9	17
57	Effects of smoking on cervical disc arthroplasty. Journal of Neurosurgery: Spine, 2019, 30, 168-174.	1.7	17
58	Comparison of Radiation Exposure Between O-Arm Navigated and C-Arm Guided Screw Placement in Minimally Invasive Transforaminal Lumbar Interbody Fusion. World Neurosurgery, 2020, 139, e489-e495.	1.3	17
59	Radiological and clinical outcomes of 3-level cervical disc arthroplasty. Journal of Neurosurgery: Spine, 2020, 32, 174-181.	1.7	17
60	Functional Recovery after the Repair of Transected Cervical Roots in the Chronic Stage of Injury. Journal of Neurotrauma, 2009, 26, 1795-1804.	3.4	16
61	Controlled release of chondroitinase ABC in chitosan-based scaffolds and PDLLA microspheres. Carbohydrate Polymers, 2011, 84, 788-793.	10.2	16
62	The immunomodulator decoy receptor 3 improves locomotor functional recovery after spinal cord injury. Journal of Neuroinflammation, 2016, 13, 154.	7.2	16
63	Neuronal morphological change of size-sieved stem cells induced by neurotrophic stimuli. Neuroscience Letters, 2004, 367, 23-28.	2.1	15
64	Sensory and motor recovery after repairing transected cervical roots. World Neurosurgery, 2007, 68, S17-S24.	1.3	15
65	Stabilization of subaxial cervical spines by lateral mass screw fixation with modified Magerl's technique. World Neurosurgery, 2008, 70, S25-S33.	1.3	15
66	Effect of Enhanced Prostacyclin Synthesis by Adenovirus-Mediated Transfer on Lipopolysaccharide Stimulation in Neuron-Glia Cultures. Annals of the New York Academy of Sciences, 2005, 1042, 338-348.	3.8	14
67	Enhanced Prostacyclin Synthesis by Adenoviral Gene Transfer Reduced Glial Activation and Ameliorated Dopaminergic Dysfunction in Hemiparkinsonian Rats. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-11.	4.0	14
68	Leptin is essential for microglial activation and neuropathic pain after preganglionic cervical root avulsion. Life Sciences, 2017, 187, 31-41.	4.3	14
69	Treatment with nerve grafts and aFGF attenuates allodynia caused by cervical root transection injuries. Restorative Neurology and Neuroscience, 2011, 29, 265-274.	0.7	13
70	Resection of uncovertebral joints and posterior longitudinal ligament for cervical disc arthroplasty. Neurosurgical Focus, 2017, 42, V2.	2.3	13
71	Serious dysphagia following anterior cervical discectomy and fusion: long-term incidence in a national cohort. Journal of Neurosurgical Sciences, 2020, 64, 231-237.	0.6	13
72	Spinal Cord Implantation with Acidic Fibroblast Growth Factor as a Treatment for Root Avulsion in Obstetric Brachial Plexus Palsy. Journal of the Chinese Medical Association, 2005, 68, 392-396.	1.4	12

#	Article	IF	Citations
73	Radiological and clinical outcomes of cervical disc arthroplasty for the elderly: a comparison with young patients. BMC Musculoskeletal Disorders, 2019, 20, 115.	1.9	12
74	The Effect of T1-Slope in Spinal Parameters After Cervical Disc Arthroplasty. Neurosurgery, 2020, 87, 1231-1239.	1.1	12
75	Outcomes of Common Peroneal Nerve Lesions After Surgical Repair With Acidic Fibroblast Growth Factor. Journal of Trauma, 2009, 66, 1379-1384.	2.3	11
76	Comparative Effects of Bone Marrow Mesenchymal Stem Cells on Lipopolysaccharide-Induced Microglial Activation. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-10.	4.0	11
77	Hybrid cervical disc arthroplasty. Neurosurgical Focus, 2017, 42, V5.	2.3	11
78	Changes of Facet Joints After Dynamic Stabilization: Continuous Degeneration orÂSlow Fusion?. World Neurosurgery, 2018, 113, e45-e50.	1.3	10
79	Unintended facet fusions after Dynesys dynamic stabilization in patients with spondylolisthesis. Journal of Neurosurgery: Spine, 2019, 30, 353-361.	1.7	10
80	Kainic Acid-Induced Oxidative Injury Is Attenuated by Hypoxic Preconditioning. Annals of the New York Academy of Sciences, 2005, 1042, 314-324.	3.8	9
81	The risk of stroke after spinal fusion surgery: a national cohort study. Spine Journal, 2012, 12, 492-499.	1.3	9
82	Lumbar spine fusion surgery and stroke: a national cohort study. European Spine Journal, 2012, 21, 2680-2687.	2.2	9
83	Improving the regenerative potential of olfactory ensheathing cells by overexpressing prostacyclin synthetase and its application in spinal cord repair. Journal of Biomedical Science, 2017, 24, 34.	7.0	9
84	Correlation of bone density to screw loosening in dynamic stabilization: an analysis of 176 patients. Scientific Reports, 2021, 11, 17519.	3.3	9
85	Effects of smoking on pedicle screwâ€“based dynamic stabilization: radiological and clinical evaluations of screw loosening in 306 patients. Journal of Neurosurgery: Spine, 2020, 33, 398-405.	1.7	9
86	Gene Transfer into Human Keloid Tissue with Adeno-Associated Virus Vector. Journal of Trauma, 2003, 54, 569-573.	2.3	8
87	Enhanced expression of glycine Nâ€methyltransferase by adenovirusâ€mediated gene transfer in CNS culture is neuroprotective. Annals of the New York Academy of Sciences, 2010, 1199, 194-203.	3.8	8
88	Coexistence of neurofibroma and meningioma at exactly the same level of the cervical spine. Journal of the Chinese Medical Association, 2014, 77, 594-597.	1.4	8
89	Hydrogel-based zinc ion sensor on optical fiber with high resolution and application to neural cells. Biosensors and Bioelectronics, 2020, 162, 112230.	10.1	8
90	Antrodia cinnamomea profoundly exalted the reversion of activated hepatic stellate cells by the alteration of cellular proteins. Food and Chemical Toxicology, 2014, 69, 150-162.	3.6	7

#	Article	IF	Citations
91	InÂVivo Real-Time Discrimination Among Glioma, Infiltration Zone, and Normal Brain Tissue via Autofluorescence Technology. World Neurosurgery, 2019, 122, e773-e782.	1.3	7
92	Cervical disc arthroplasty for Klippel-Feil syndrome. Clinical Neurology and Neurosurgery, 2021, 209, 106934.	1.4	7
93	Characterizing the Neuroprotective Effects of S/B Remedy (Scutellaria baicalensis Georgi and) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.8	6
94	Minimally invasive dynamic screw stabilization using cortical bone trajectory. BMC Musculoskeletal Disorders, 2020, 21, 605.	1.9	6
95	Minocycline exhibits synergism with conditioned medium of bone marrow mesenchymal stem cells against ischemic stroke. Journal of Tissue Engineering and Regenerative Medicine, 2021, 15, 279-292.	2.7	6
96	Contusion Spinal Cord Injury Rat Model. Bio-protocol, 2017, 7, e2337.	0.4	6
97	Combined Anterior and Posterior Decompression With Fusion for Cervical Ossification of the Posterior Longitudinal Ligament. Frontiers in Surgery, 2021, 8, 730133.	1.4	6
98	Anterior Bone Loss in Cervical Disc Arthroplasty Correlates with Increased Cervical Lordosis. World Neurosurgery, 2022, , .	1.3	6
99	Repairing the ventral root is sufficient for simultaneous motor and sensory recovery in multiple complete cervical root transection injuries. Life Sciences, 2014, 109, 44-49.	4.3	5
100	Data on the expression of leptin and leptin receptor in the dorsal root ganglion and spinal cord after preganglionic cervical root avulsion. Data in Brief, 2017, 15, 567-572.	1.0	5
101	Local inhibition of matrix metalloproteinases reduced M2 macrophage activity and impeded recovery in spinal cord transected rats after treatment with fibroblast growth factor-1 and nerve grafts. Neural Regeneration Research, 2018, 13, 1447.	3.0	5
102	Evaluation of the Antiangiogenic Effect of Kringle 1-5 in a Rat Glioma Model. Neurosurgery, 2012, 70, 479-490.	1.1	4
103	Solid-state sensing tip for zinc ion with double parallel optical fibers embedded in fluorescent hydrogel. Organic Electronics, 2015, 26, 429-438.	2.6	4
104	Hydrocephalus Caused by Fat Embolism: A Rare Complication of Atlanto-Axial Fixation for Odontoid Fractures. World Neurosurgery, 2016, 90, 700.e7-700.e12.	1.3	4
105	Stepwise illustration of teeth-fixation semi-constrained cervical disc arthroplasty. Neurosurgical Focus, 2017, 42, V4.	2.3	4
106	Letter to the Editor: Pedicle screwâ€“based dynamic stabilization and adjacent-segment disease. Journal of Neurosurgery: Spine, 2017, 26, 405-406.	1.7	4
107	Monkey Recovery from Spinal Cord Hemisection: Nerve Repair Strategies for Rhesus Macaques. World Neurosurgery, 2019, 129, e343-e351.	1.3	4
108	The Application of an Omentum Graft or Flap in Spinal Cord Injury. International Journal of Molecular Sciences, 2021, 22, 7930.	4.1	4

#	Article	IF	Citations
109	Cranio-Vertebral Junction Triangular Area: Quantification of Brain Stem Compression by Magnetic Resonance Images. Brain Sciences, 2021, 11, 64.	2.3	4
110	Suture Repair in Endoscopic Surgery for Craniovertebral Junction. Neurospine, 2019, 16, 257-266.	2.9	4
111	Primary Choroid Plexus Papilloma over Sellar Region Mimicking with Craniopharyngioma: A Case Report and Literature Review. Cureus, 2018, 10, e2849.	0.5	4
112	Augmented Reality-Assisted Percutaneous Pedicle Screw Instrumentation: A Cadaveric Feasibility and Accuracy Study. Applied Sciences (Switzerland), 2022, 12, 5261.	2.5	4
113	One-stage posterior resection is feasible for a holovertebral aneurysmal bone cyst of the axis: a case report and literature review. World Neurosurgery, 2009, 72, S80-S85.	1.3	3
114	Accurate real-time sensing tip for aqueous NO with optical fibers embedded in active hydrogel waveguide. AIP Advances, 2018, 8, 025207.	1.3	3
115	Disappearance of Anterior Cervical Corpectomy Cage. Cureus, 2019, 11, e3985.	0.5	3
116	The Risk of Stroke after Percutaneous Vertebroplasty for Osteoporosis: A Population-Based Cohort Study. PLoS ONE, 2012, 7, e31405.	2.5	2
117	Hyperlipidemia and Statins Affect Neurological Outcome in Lumbar Spine Injury. International Journal of Environmental Research and Public Health, 2015, 12, 402-413.	2.6	2
118	A Cylindrical Ion Sensor Tip with a Diameter of 1.5 mm for Potentially Invasive Medical Application. ACS Omega, 2020, 5, 23021-23027.	3.5	2
119	MULTIMODAL NONLINEAR OPTICAL IMAGING OF CELLâ€“MATRIX INTERACTION DURING SPINAL CORD INJURY EX VIVO. Biomedical Engineering - Applications, Basis and Communications, 2011, 23, 223-230.	0.6	1
120	Cytoprotective and anti-inflammatory effects of PAL31 overexpression in glial cells. Journal of Biomedical Science, 2014, 21, 60.	7.0	1
121	Lower Risk of Stroke after Deformity Surgery: Long Term Benefit Demonstrated by a National Cohort Study. International Journal of Environmental Research and Public Health, 2015, 12, 12618-12627.	2.6	1
122	Neuroprotection in the Acute Stage Enables Functional Recovery Following Repair of Chronic Cervical Root Transection After a 3-Week Delay. Neurosurgery, 2020, 87, 823-832.	1.1	1
123	Stem cell transplantation and/or adenoviral glial cell line-derived neurotrophic factor promote functional recovery in hemiparkinsonian rats. World Journal of Stem Cells, 2021, 13, 78-90.	2.8	1
124	Taiwan Neurosurgical Spine Society: The New Shining Star. Neurospine, 2018, 15, 285-295.	2.9	1
125	Five-year medical expenses of central cord syndrome: analysis using a national cohort. Journal of Neurosurgical Sciences, 2020, 64, 147-153.	0.6	1
126	Poster 367: The Effect of Repetitive Transcranial Magnetic Stimulation on Motor Recovery of Contralateral and Ipsilateral Limbs in Patients with Incomplete Chronic Spinal Cord Injury: A Preliminary Report. PM and R, 2009, 1, S264-S264.	1.6	0

#	Article	IF	Citations
127	Letter to the Editor: Differences between Dynamic Cervical Implant and artificial discs. Journal of Neurosurgery: Spine, 2015, 23, 534-536.	1.7	0
128	Letter to the Editor: Post-ACDF imaging in patients with metallic implants. Journal of Neurosurgery: Spine, 2016, 25, 418-419.	1.7	0
129	Letter to the Editor: Strategic use of cone-beam CT in modern spine surgery. Journal of Neurosurgery: Spine, 2017, 26, 544-545.	1.7	0
130	An Optical pH Sensor with Second Layer to Eliminate Leaching Effect. , 2020, , .		0
131	Cortical Bone Trajectory-Based Dynamic Stabilization. World Neurosurgery, 2022, 159, e416-e424.	1.3	0