

# Hai Sun

## List of Publications by Year in descending order

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95  
papers

1,349  
citations

304602

22  
h-index

414303

32  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1988  
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel Role for the AnxA1-Fpr2/ALX Signaling Axis as a Key Regulator of Platelet Function to Promote Resolution of Inflammation. <i>Circulation</i> , 2019, 140, 319-335.	1.6	98
2	Meta-analysis and systematic review of risk factors for shunt dependency after aneurysmal subarachnoid hemorrhage. <i>Journal of Neurosurgery</i> , 2017, 126, 586-595.	0.9	84
3	Stereopsis-guided brain shift compensation. <i>IEEE Transactions on Medical Imaging</i> , 2005, 24, 1039-1052.	5.4	80
4	Perioperative Complications and Long-Term Outcomes After Bypasses in Adults with Moyamoya Disease: A Systematic Review and Meta-Analysis. <i>World Neurosurgery</i> , 2016, 92, 179-188.	0.7	57
5	Sequential activation of premotor, primary somatosensory and primary motor areas in humans during cued finger movements. <i>Clinical Neurophysiology</i> , 2015, 126, 2150-2161.	0.7	54
6	Factors Associated with Biochemical Remission after Microscopic Transsphenoidal Surgery for Acromegaly. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2014, 75, 047-052.	0.4	50
7	Extensive traumatic anterior skull base fractures with cerebrospinal fluid leak: classification and repair techniques using combined vascularized tissue flaps. <i>Journal of Neurosurgery</i> , 2016, 124, 647-656.	0.9	43
8	Volumetric in vivo imaging of intracochlear microstructures in mice by high-speed spectral domain optical coherence tomography. <i>Journal of Biomedical Optics</i> , 2010, 15, 1.	1.4	39
9	Low-flow and high-flow neurosurgical bypass and anastomosis training models using human and bovine placental vessels: a histological analysis and validation study. <i>Journal of Neurosurgery</i> , 2016, 125, 915-928.	0.9	37
10	Impact of Hospital Caseload and Elective Admission on Outcomes After Extracranial-Intracranial Bypass Surgery. <i>World Neurosurgery</i> , 2017, 108, 716-728.	0.7	36
11	Cortical Surface Tracking Using a Stereoscopic Operating Microscope. <i>Operative Neurosurgery</i> , 2005, 56, ONS-86-ONS-97.	0.4	35
12	Surgical anatomy and utility of pedicled vascularized tissue flaps for multilayered repair of skull base defects. <i>Journal of Neurosurgery</i> , 2016, 125, 419-430.	0.9	34
13	Volumetric In Vivo Imaging of Microvascular Perfusion Within the Intact Cochlea in Mice Using Ultra-High Sensitive Optical Microangiography. <i>IEEE Transactions on Medical Imaging</i> , 2011, 30, 224-230.	5.4	33
14	Overexpression of adenosine kinase in cortical astrocytes and focal neocortical epilepsy in mice. <i>Journal of Neurosurgery</i> , 2014, 120, 628-638.	0.9	32
15	Early intervention in cauda equina syndrome associated with better outcomes: a myth or reality? Insights from the Nationwide Inpatient Sample database (2005-2011). <i>Spine Journal</i> , 2017, 17, 1435-1448.	0.6	28
16	Associations of Baseline Frailty Status and Age With Outcomes in Patients Undergoing Vestibular Schwannoma Resection. <i>JAMA Otolaryngology - Head and Neck Surgery</i> , 2021, 147, 608.	1.2	28
17	Epidemiology of adult-onset hydrocephalus: institutional experience with 2001 patients. <i>Neurosurgical Focus</i> , 2016, 41, E5.	1.0	27
18	Endoplasmic reticulum stress-induced apoptosis in the penumbra aggravates secondary damage in rats with traumatic brain injury. <i>Neural Regeneration Research</i> , 2016, 11, 1260.	1.6	26

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19	Timing of Carotid Endarterectomy for Symptomatic Carotid Stenosis: A Snapshot of Current Trends and Systematic Review of Literature on Changing Paradigm towards Early Surgery. <i>Neurosurgery</i> , 2019, 85, E214-E225.	0.6	25
20	Big data, machine learning, and artificial intelligence: a field guide for neurosurgeons. <i>Journal of Neurosurgery</i> , 2020, , 1-11.	0.9	25
21	Incidence, Characteristics and Outcomes of Large Vessel Stroke in COVID-19 Cohort: An International Multicenter Study. <i>Neurosurgery</i> , 2021, 89, E35-E41.	0.6	24
22	Optimal Management of Malignant Epidural Spinal Cord Compression. <i>Hematology/Oncology Clinics of North America</i> , 2010, 24, 537-551.	0.9	23
23	High-grade Gliomas Exhibit Higher Peritumoral Fractional Anisotropy and Lower Mean Diffusivity than Intracranial Metastases. <i>Frontiers in Surgery</i> , 2017, 4, 18.	0.6	23
24	Techniques and Outcomes of Gore-Tex Clip-Wrapping of Ruptured and Unruptured Cerebral Aneurysms. <i>World Neurosurgery</i> , 2016, 90, 281-290.	0.7	22
25	The human foramen magnumâ€™ normal anatomy of the cisterna magna in adults. <i>Neuroradiology</i> , 2013, 55, 1333-1339.	1.1	19
26	Techniques and outcomes of microsurgical management of ruptured and unruptured fusiform cerebral aneurysms. <i>Journal of Neurosurgery</i> , 2017, 127, 1353-1360.	0.9	17
27	Impact of Psychiatric Comorbidities on Short-Term Outcomes Following Intervention for Lumbar Degenerative Disc Disease. <i>Spine</i> , 2018, 43, 1363-1371.	1.0	17
28	Estimating Cortical Surface Motion Using Stereopsis for Brain Deformation Models. <i>Lecture Notes in Computer Science</i> , 2003, , 794-801.	1.0	14
29	Superior Cerebellar Artery Aneurysms, the â€™Sui Generisâ€™ in Posterior Circulation: The Role of Microsurgery in the Endovascular Era. <i>World Neurosurgery</i> , 2016, 94, 229-238.	0.7	13
30	Role of radiological parameters in predicting overall shunt outcome after ventriculoperitoneal shunt insertion in pediatric patients with obstructive hydrocephalus. <i>Neurosurgical Focus</i> , 2016, 41, E4.	1.0	12
31	Techniques and long-term outcomes of cotton-clipping and cotton-augmentation strategies for management of cerebral aneurysms. <i>Journal of Neurosurgery</i> , 2016, 125, 720-729.	0.9	12
32	Revisiting racial disparities in access to surgical management of drug-resistant temporal lobe epilepsy post implementation of Affordable Care Act. <i>Clinical Neurology and Neurosurgery</i> , 2017, 158, 82-89.	0.6	12
33	Endovascular Treatment of Pulsatile Tinnitus by Sigmoid Sinus Aneurysm: Technical Note and Review of the Literature. <i>World Neurosurgery</i> , 2018, 113, 238-243.	0.7	12
34	Does preoperative embolization improve outcomes of meningioma resection? A systematic review and meta-analysis. <i>Neurosurgical Review</i> , 2021, 44, 3151-3163.	1.2	12
35	Mutations of the MAPK/TSC/mTOR pathway characterize periventricular glioblastoma with epithelioid SEGA-like morphology-morphological and therapeutic implications. <i>Oncotarget</i> , 2019, 10, 4038-4052.	0.8	12
36	Head movement during walking in the cat. <i>Neuroscience</i> , 2016, 332, 101-120.	1.1	11

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37	Coexistence of obstructive sleep apnea worsens the overall outcome of intracranial aneurysm: a pioneer study. <i>Journal of Neurosurgery</i> , 2018, 128, 735-746.	0.9	11
38	Differentiation of High-Grade Glioma and Intracranial Metastasis Using Volumetric Diffusion Tensor Imaging Tractography. <i>World Neurosurgery</i> , 2018, 120, e131-e141.	0.7	11
39	Intra-Operative Image Updating. <i>Stereotactic and Functional Neurosurgery</i> , 2001, 76, 148-150.	0.8	10
40	Factors Associated with Abducens Nerve Recovery in Patients Undergoing Surgical Resection of Sixth Nerve Schwannoma: A Systematic Review and Case Illustration. <i>World Neurosurgery</i> , 2017, 104, 883-899.	0.7	10
41	Impact of Prehospital Transportation on Survival in Skiers and Snowboarders with Traumatic Brain Injury. <i>World Neurosurgery</i> , 2017, 104, 909-918.e8.	0.7	10
42	Pulmonary Complications After Spontaneous Aneurysmal Subarachnoid Hemorrhage: Experience from Barrow Neurological Institute. <i>World Neurosurgery</i> , 2018, 119, e366-e373.	0.7	10
43	Uncharted Waters of Machine and Deep Learning for Surgical Phase Recognition in Neurosurgery. <i>World Neurosurgery</i> , 2022, 160, 4-12.	0.7	10
44	Using cortical vessels for patient registration during image-guided neurosurgery: a phantom study. , 2003, 5029, 183.		9
45	Optimal Management of Malignant Epidural Spinal Cord Compression. <i>Emergency Medicine Clinics of North America</i> , 2009, 27, 195-208.	0.5	9
46	Preoperative Lateralization Modalities for Cushing Disease: Is Dynamic Magnetic Resonance Imaging or Cavernous Sinus Sampling More Predictive of Intraoperative Findings?. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2015, 76, 218-224.	0.4	8
47	Spinal arteriovenous malformations. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2017, 143, 153-160.	1.0	8
48	Focal epilepsy caused by single cerebral cavernous malformation (CCM) is associated with regional and global resting state functional connectivity (FC) disruption. <i>NeuroImage: Clinical</i> , 2019, 24, 102072.	1.4	8
49	Cerebral Revascularization for Moyamoya Syndrome Associated with Sickle Cell Disease: A Systematic Review of the Literature on the Role of Extracranial-Intracranial Bypass in Treating Neurologic Manifestations of Pediatric Patients with Sickle Cell Disease. <i>World Neurosurgery</i> , 2020, 137, 62-70.	0.7	8
50	The Relationship Between Obstructive Sleep Apnea and Ruptured Intracranial Aneurysms. <i>Journal of Clinical Sleep Medicine</i> , 2019, 15, 1839-1848.	1.4	8
51	Retractorless surgery for intracranial aneurysms. <i>Journal of Neurosurgical Sciences</i> , 2016, 60, 54-69.	0.3	8
52	Impact of associated injuries in conjunction with fracture of the axis vertebra on inpatient outcomes and postoperative complications: a Nationwide Inpatient Sample analysis from 2002 to 2011. <i>Spine Journal</i> , 2016, 16, 491-503.	0.6	7
53	Modeling of Brain Tissue Retraction Using Intraoperative Data. <i>Lecture Notes in Computer Science</i> , 2004, , 225-233.	1.0	7
54	Proposing a validated clinical app predicting hospitalization cost for extracranial-intracranial bypass surgery. <i>PLoS ONE</i> , 2017, 12, e0186758.	1.1	7

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55	Nicolau Syndrome, Masquerader of Postinjection Sciatic Nerve Injury: Case Report and Review of Literature. <i>World Neurosurgery</i> , 2020, 143, 51-55.	0.7	6
56	DREADDs in Epilepsy Research: Network-Based Review. <i>Frontiers in Molecular Neuroscience</i> , 2022, 15, 863003.	1.4	6
57	A Noncontacting 3-D Digitizer for Use in Image-Guided Neurosurgery. <i>Stereotactic and Functional Neurosurgery</i> , 2003, 80, 120-124.	0.8	5
58	Repair of intraoperative aneurysm neck tear utilizing the cotton-clipping technique. <i>Neurosurgical Focus</i> , 2015, 38, Video14.	1.0	5
59	Experimental animal models for moyamoya disease and treatment: a pathogenesis-oriented scoping review. <i>Neurosurgical Focus</i> , 2021, 51, E5.	1.0	5
60	<title>Real-time correction scheme for calibration and implementation of microscope-based image-guided neurosurgery</title>. , 2002, , .		4
61	Blood-Brain Barrier Disruption During Neuroinflammation. , 2018, , 529-539.		4
62	Diagnosis and management of intramedullary spinal cord lymphoma: A case illustration and review of literature. <i>Interdisciplinary Neurosurgery: Advanced Techniques and Case Management</i> , 2020, 19, 100552.	0.2	4
63	Fatal Hemorrhagic Infarction of Posterior Fossa Meningioma During Cardiopulmonary Bypass. <i>Annals of Thoracic Surgery</i> , 2012, 93, 653-656.	0.7	3
64	Minimal Access Posterior Approach for Extrapleural Thoracic Sympathectomy: A Cadaveric Study and Cases. <i>World Neurosurgery</i> , 2016, 93, 490.e1-490.e6.	0.7	3
65	Incidence, Characteristics and Outcomes of Large Vessel Stroke in COVID-19 Cohort: A Multicentric International Study.. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
66	Delayed Spinal Arachnoiditis Following Aneurysmal Subarachnoid Hemorrhage: A Case Report. <i>Cureus</i> , 2018, 10, e2031.	0.2	2
67	135â€fElectrophysiological Evidence of the Efference Copy in Human Voluntary Movements. <i>Neurosurgery</i> , 2013, 60, 164-165.	0.6	1
68	Mobile Apps and Neurosurgery. <i>World Neurosurgery</i> , 2016, 92, 571.	0.7	1
69	Psammomatous Cavernous Malformation Presenting as Drug-Resistant Epilepsy: Case Illustration and Review of Literature. <i>World Neurosurgery</i> , 2016, 93, 120-126.	0.7	1
70	Proton Pump Inhibitors and Dementia Incidence. <i>JAMA Neurology</i> , 2016, 73, 1027.	4.5	1
71	Microsurgical Resection After Failed Gamma Knife Radiosurgery of Papillary Tumor of the Pineal Gland. <i>World Neurosurgery</i> , 2017, 105, 1031.e1.	0.7	1
72	Novel Use of Pipeline Stent Device After Inadvertent Microcatheter Rupture During Arteriovenous Fistula Embolization. <i>World Neurosurgery</i> , 2018, 119, 345-348.	0.7	1

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73	Targeted Stereotactic Radiosurgery for Arteriovenous Malformation Downgrading Followed by Microsurgical Resection: A Case Report and Review of the Literature. <i>World Neurosurgery</i> , 2019, 131, 82-86.	0.7	1
74	Biomarkers of Seizure Activity in Patients With Intracranial Metastases and Gliomas: A Wide Range Study of Correlated Regions of Interest. <i>Frontiers in Neurology</i> , 2020, 11, 444.	1.1	1
75	Multiple Occipital Bone Lytic Lesions Containing Ectopic Cerebellar Parenchyma Mimicking Neoplasia. <i>World Neurosurgery</i> , 2020, 138, 115-119.	0.7	1
76	In Reply: Outcomes and Spectrum of Major Neurovascular Events Among COVID-19 Patients: A 3-Center Experience. <i>Neurosurgery Open</i> , 2021, 2, okab009.	0.7	1
77	Multi-modal endovascular management of traumatic pseudoaneurysm and arteriovenous fistula of the ascending cervical artery: A technical report and review of literature. <i>Clinical Neurology and Neurosurgery</i> , 2021, 202, 106539.	0.6	1
78	Jacques Forestier: Forgotten Contributions of a Rheumatologist to Spine Surgery. <i>World Neurosurgery</i> , 2021, 148, 136-140.	0.7	1
79	The mediums of dissemination of knowledge and illustration in neurosurgery: unraveling the evolution. <i>Journal of Neurosurgery</i> , 2021, 135, 955-961.	0.9	1
80	Abstract WP84: Obstructive Sleep Apnea May Worsen the Overall Outcome of Intracranial Aneurysms. <i>Stroke</i> , 2017, 48, .	1.0	1
81	Outcomes of Mechanical Thrombectomy for Ischemic Stroke in Nonagenarians: A 10-Year Institutional Experience. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2022, 31, 106106.	0.7	1
82	Volumetric in-vivo imaging of intra-cochlear microstructures and microvascular perfusion in mice using high-speed spectral domain optical coherence tomography and ultra-high sensitive optical microangiography. , 2011, , .		0
83	One-piece Orbitozygomatic Craniotomy for Resection of Rathke's Cleft Cyst: Operative Video. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2018, 79, S211-S212.	0.4	0
84	Letter to the Editor. Direct versus indirect bypass for adult ischemic-type moyamoya disease. <i>Journal of Neurosurgery</i> , 2018, 128, 1901-1903.	0.9	0
85	A rare case of pseudomonas meningitis following intrathecal baclofen pump placement in a 28-year-old paraplegic patient. <i>Interdisciplinary Neurosurgery: Advanced Techniques and Case Management</i> , 2018, 13, 82-84.	0.2	0
86	Thursday, September 27, 2018 1:05 PM–2:05 PM Understanding Anxiety and Depression when Performing Spine Surgery. <i>Spine Journal</i> , 2018, 18, S58-S59.	0.6	0
87	Complications After Epilepsy Surgery. , 2019, , 196-202.		0
88	Cognard Grade IV Tentorial Dural Arteriovenous Fistula Presenting as Trigeminal Neuralgia: Endovascular Management. <i>World Neurosurgery</i> , 2020, 144, 184.	0.7	0
89	In Reply to the Letter to the Editor Regarding "Cerebral Revascularization for Moyamoya Syndrome Associated with Sickle Cell Disease: A Systematic Review of Literature on the Role of Extracranial-Intracranial Bypass in Treating Neurologic Manifestations of Pediatric Patients with Sickle Cell Disease". <i>World Neurosurgery</i> , 2020, 138, 583-584.	0.7	0
90	Abstract P104: Incidence, Characteristics and Outcomes of Large Vessel Stroke in Covid-19: An International Multicenter Study. <i>Stroke</i> , 2021, 52, .	1.0	0

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91	Compliance With Preferred Reporting Items for Systematic Review and Meta-Analysis Individual Participant Data Statement for Meta-Analyses Published for Stroke Studies. <i>Stroke</i> , 2021, 52, 2817-2826.	1.0	0
92	Extensive Anterior Cranial Base Fractures: Anatomic and Surgical Description of Combination Flaps. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2015, 76, .	0.4	0
93	Utility of Magnetic Resonance Findings in Elucidating Structural and Functional Brain Impairment in Traumatic Brain Injury. , 2017, , 443-456.		0
94	Role of Stereotactic Radiosurgery in the Management of Multiple Metastases in the Region of the Motor Cortex: Long-term Survival in Three Cases. <i>Cureus</i> , 2017, 9, e1946.	0.2	0
95	Major Cerebral Artery Injury during Skull Base Meningioma Resection: Critical Video Analysis of Institutional Experience and Systematic Review of Literature. , 2019, 80, .		0