Tej D Azad

List of Publications by Year
in descending order

102 papers	5,869 citations	159585 30 h-index	82547 72 g-index
103 all docs	103 docs citations	103 times ranked	9983 citing authors

#	Article	IF	Citations
1	Early Detection of Molecular Residual Disease in Localized Lung Cancer by Circulating Tumor DNA Profiling. Cancer Discovery, 2017, 7, 1394-1403.	9.4	701
2	Estimate of the global volume of surgery in 2012: an assessment supporting improved health outcomes. Lancet, The, 2015, 385, S11.	13.7	578
3	Size and distribution of the global volume of surgery in 2012. Bulletin of the World Health Organization, 2016, 94, 201-209F.	3.3	447
4	Relationship Between Cesarean Delivery Rate and Maternal and Neonatal Mortality. JAMA - Journal of the American Medical Association, 2015, 314, 2263.	7.4	431
5	Integrating genomic features for non-invasive early lung cancer detection. Nature, 2020, 580, 245-251.	27.8	379
6	Magnetic resonance image features identify glioblastoma phenotypic subtypes with distinct molecular pathway activities. Science Translational Medicine, 2015, 7, 303ra138.	12.4	227
7	Anti-CD47 Treatment Stimulates Phagocytosis of Glioblastoma by M1 and M2 Polarized Macrophages and Promotes M1 Polarized Macrophages In Vivo. PLoS ONE, 2016, 11, e0153550.	2.5	221
8	Unsupervised Analysis of Transcriptomics in Bacterial Sepsis Across Multiple Datasets Reveals Three Robust Clusters. Critical Care Medicine, 2018, 46, 915-925.	0.9	219
9	Microglia are effector cells of CD47-SIRPα antiphagocytic axis disruption against glioblastoma. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 997-1006.	7.1	183
10	Circulating Tumor DNA Analysis for Detection of Minimal Residual Disease After Chemoradiotherapy for Localized Esophageal Cancer. Gastroenterology, 2020, 158, 494-505.e6.	1.3	147
11	Leveraging heterogeneity across multiple datasets increases cell-mixture deconvolution accuracy and reduces biological and technical biases. Nature Communications, 2018, 9, 4735.	12.8	128
12	Detection of Solid Tumor Molecular Residual Disease (MRD) Using Circulating Tumor DNA (ctDNA). Molecular Diagnosis and Therapy, 2019, 23, 311-331.	3.8	123
13	Expenditures and Health Care Utilization Among Adults With Newly Diagnosed Low Back and Lower Extremity Pain. JAMA Network Open, 2019, 2, e193676.	5.9	119
14	Cervical Spondylotic Myelopathy. Clinical Spine Surgery, 2016, 29, 408-414.	1.3	109
15	Therapeutic strategies to improve drug delivery across the blood-brain barrier. Neurosurgical Focus, 2015, 38, E9.	2.3	96
16	Endothelial Nitric Oxide Synthase Mediates Endogenous Protection Against Subarachnoid Hemorrhage-Induced Cerebral Vasospasm. Stroke, 2011, 42, 776-782.	2.0	92
17	Telemedical Education: Training Digital Natives in Telemedicine. Journal of Medical Internet Research, 2016, 18, e193.	4.3	92
18	Predicting complication risk in spine surgery: a prospective analysis of a novel risk assessment tool. Journal of Neurosurgery: Spine, 2017, 27, 81-91.	1.7	81

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19	Neurorestoration after stroke. Neurosurgical Focus, 2016, 40, E2.	2.3	72
20	Surgical outcomes of cervical spondylotic myelopathy: an analysis of a national, administrative, longitudinal database. Neurosurgical Focus, 2016, 40, E11.	2.3	57
21	The Alzheimerâ€™s disease-8 and Montreal Cognitive Assessment as screening tools for neurocognitive impairment in HIV-infected persons. Journal of NeuroVirology, 2013, 19, 109-116.	2.1	54
22	Anterior Versus Posterior Approach for Multilevel Degenerative Cervical Disease. Spine, 2015, 40, 1033-1038.	2.0	54
23	Limitations of functional neuroimaging for patient selection and surgical planning in glioma surgery. Neurosurgical Focus, 2020, 48, E12.	2.3	51
24	A machine learning approach for predictive models of adverse events following spine surgery. Spine Journal, 2019, 19, 1772-1781.	1.3	49
25	Robotic Spine Surgery: Current State in Minimally Invasive Surgery. Global Spine Journal, 2020, 10, 34S-40S.	2.3	47
26	Precision annotation of digital samples in NCBIâ€™s gene expression omnibus. Scientific Data, 2017, 4, 170125.	5.3	44
27	Robot-Assisted versus Freehand Instrumentation in Short-Segment Lumbar Fusion: Experience with Real-Time Image-Guided Spinal Robot. World Neurosurgery, 2020, 136, e635-e645.	1.3	44
28	Neurosurgical Randomized Trials in Low- and Middle-Income Countries. Neurosurgery, 2020, 87, 476-483.	1.1	41
29	Trends in Anterior Lumbar Interbody Fusion in the United States. Clinical Spine Surgery, 2020, 33, E226-E230.	1.3	39
30	Notch1 regulates the initiation of metastasis and self-renewal of Group 3 medulloblastoma. Nature Communications, 2018, 9, 4121.	12.8	36
31	Liquid biopsy for pediatric diffuse midline glioma: a review of circulating tumor DNA and cerebrospinal fluid tumor DNA. Neurosurgical Focus, 2020, 48, E9.	2.3	36
32	Building an electronic health record integrated quality of life outcomes registry for spine surgery. Journal of Neurosurgery: Spine, 2016, 24, 176-185.	1.7	31
33	New spinal robotic technologies. Frontiers of Medicine, 2019, 13, 723-729.	3.4	29
34	Genomic Landscape of Intramedullary Spinal Cord Gliomas. Scientific Reports, 2019, 9, 18722.	3.3	28
35	Lumboperitoneal and Ventriculoperitoneal Shunting for Idiopathic Intracranial Hypertension Demonstrate Comparable Failure and Complication Rates. Neurosurgery, 2020, 86, 272-280.	1.1	27
36	Inflammatory macrophageâ€"associated 3-gene signature predicts subclinical allograft injury and graft survival. JCI Insight, 2018, 3, .	5.0	27

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37	Glioblastoma stem cells and stem cell-targeting immunotherapies. Journal of Neuro-Oncology, 2015, 123, 449-457.	2.9	25
38	Improved capture of adverse events after spinal surgery procedures with a longitudinal administrative database. Journal of Neurosurgery: Spine, 2015, 23, 374-382.	1.7	25
39	Heparan sulfate proteoglycans mediate AÎ²-induced oxidative stress and hypercontractility in cultured vascular smooth muscle cells. Molecular Neurodegeneration, 2016, 11, 9.	10.8	25
40	Surgical outcomes of pediatric spinal cord astrocytomas: systematic review and meta-analysis. Journal of Neurosurgery: Pediatrics, 2018, 22, 404-410.	1.3	25
41	Validation and Application for the Berlin Grading System of Moyamoya Disease in Adult Patients. Neurosurgery, 2020, 86, 203-212.	1.1	25
42	Trigeminal and sphenopalatine ganglion stimulation for intractable craniofacial painâ€"case series and literature review. Acta Neurochirurgica, 2016, 158, 513-520.	1.7	24
43	Initial Provider Specialty Is Associated With Long-term Opiate Use in Patients With Newly Diagnosed Low Back and Lower Extremity Pain. Spine, 2019, 44, 211-218.	2.0	24
44	Coronavirus Disease 2019 Policy Restricting Family Presence May Have Delayed End-of-Life Decisions for Critically Ill Patients. Critical Care Medicine, 2021, 49, e1037-e1039.	0.9	23
45	Fostering reproducibility and generalizability in machine learning for clinical prediction modeling in spine surgery. Spine Journal, 2021, 21, 1610-1616.	1.3	22
46	Long-Term Effectiveness of Gross-Total Resection for Symptomatic Spinal Cord Cavernous Malformations. Neurosurgery, 2018, 83, 1201-1208.	1.1	21
47	Neurosurgical Randomized Controlled Trialsâ€"Distance Travelled. Neurosurgery, 2018, 82, 604-612.	1.1	21
48	Laminectomy Versus Corpectomy for Spinal Metastatic Diseaseâ€"Complications, Costs, and Quality Outcomes. World Neurosurgery, 2019, 131, e468-e473.	1.3	21
49	Patterns of Opioid and Benzodiazepine Use in Opioid-NaÃ¯ve Patients with Newly Diagnosed Low Back and Lower Extremity Pain. Journal of General Internal Medicine, 2020, 35, 291-297.	2.6	21
50	A predictive-modeling based screening tool for prolonged opioid use after surgical management of low back and lower extremity pain. Spine Journal, 2020, 20, 1184-1195.	1.3	19
51	Diagnostic Utility of Intraoperative Neurophysiological Monitoring for Intramedullary Spinal Cord Tumors. Clinical Spine Surgery, 2018, 31, 112-119.	1.3	18
52	Retrosigmoid Versus Translabyrinthine Approach for Acoustic Neuroma Resection: An Assessment of Complications and Payments in a Longitudinal Administrative Database. Cureus, 2015, 7, e369.	0.5	17
53	Nelson Syndrome: Update on Therapeutic Approaches. World Neurosurgery, 2015, 83, 1135-1140.	1.3	16
54	Stereotactic radiosurgery for metastasis to the craniovertebral junction preserves spine stability and offers symptomatic relief. Journal of Neurosurgery: Spine, 2016, 24, 241-247.	1.7	16

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55	Outcomes of cervical laminoplasty—Population-level analysis of a national longitudinal database. Journal of Clinical Neuroscience, 2018, 48, 66-70.	1.5	16
56	Geographic variation in the surgical management of lumbar spondylolisthesis: characterizing practice patterns and outcomes. Spine Journal, 2018, 18, 2232-2238.	1.3	16
57	Prediction Models in Degenerative Spine Surgery: A Systematic Review. Global Spine Journal, 2021, 11, 79S-88S.	2.3	16
58	A Descriptive Analysis of Spinal Cord Arteriovenous Malformations: Clinical Features, Outcomes, and Trends in Management. World Neurosurgery, 2019, 131, e579-e585.	1.3	15
59	A Comprehensive Circulating Tumor DNA Assay for Detection of Translocation and Copy-Number Changes in Pediatric Sarcomas. Molecular Cancer Therapeutics, 2021, 20, 2016-2025.	4.1	15
60	Avoidable maternal and neonatal deaths associated with improving access to caesarean delivery in countries with low caesarean delivery rates: an ecological modelling analysis. Lancet, The, 2015, 385, S33.	13.7	14
61	Pediatric Central Nervous System Tumors in Nepal: Retrospective Analysis and Literature Review of Low- and Middle-Income Countries. World Neurosurgery, 2015, 84, 1832-1837.	1.3	14
62	Evaluating Shunt Survival Following Ventriculoperitoneal Shunting with and without Stereotactic Navigation in Previously Shunt-Naïve Patients. World Neurosurgery, 2020, 136, e671-e682.	1.3	13
63	Junior Seau: An Illustrative Case of Chronic Traumatic Encephalopathy and Update on Chronic Sports-Related Head Injury. World Neurosurgery, 2016, 86, 515.e11-515.e16.	1.3	12
64	Endoscopic vs. Microscopic Resection of Sellar Lesions—A Matched Analysis of Clinical and Socioeconomic Outcomes. Frontiers in Surgery, 2017, 4, 33.	1.4	12
65	Prognostic Factors and Treatment Patterns in the Management of Giant Cell Glioblastoma. World Neurosurgery, 2019, 128, e217-e224.	1.3	12
66	Patterns of Care and Age-Specific Impact of Extent of Resection and Adjuvant Radiotherapy in Pediatric Pineoblastoma. Neurosurgery, 2020, 86, E426-E435.	1.1	11
67	A Brief History of Machine Learning in Neurosurgery. Acta Neurochirurgica Supplementum, 2022, 134, 245-250.	1.0	11
68	Postoperative Opioid Use, Complications, and Costs in Surgical Management of Lumbar Spondylolisthesis. Spine, 2018, 43, 1080-1088.	2.0	10
69	Molecular foundations of primary spinal tumors—implications for surgical management. Annals of Translational Medicine, 2019, 7, 222-222.	1.7	10
70	Reverse phase protein arrays enable glioblastoma molecular subtyping. Journal of Neuro-Oncology, 2017, 131, 437-448.	2.9	9
71	Spontaneous Intrauterine Depressed Skull Fractures: Report of 2 Cases Requiring Neurosurgical Intervention and Literature Review. World Neurosurgery, 2018, 110, 256-262.	1.3	9
72	Endotypes and the Path to Precision in Moderate and Severe Traumatic Brain Injury. Neurocritical Care, 2022, 37, 259-266.	2.4	9

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73	Adoption of awake spine surgery â€" trends from a national registry over 14 years. Spine Journal, 2022, 22, 1601-1609.	1.3	9
74	Delayed Presentation of Sciatic Nerve Injury after Total Hip Arthroplasty: Neurosurgical Considerations, Diagnosis, and Management. Journal of Neurological Surgery Reports, 2016, 77, e134-e138.	0.6	8
75	Contralateral acute vascular occlusion following revascularization surgery for moyamoya disease. Journal of Neurosurgery, 2019, 131, 1702-1708.	1.6	8
76	Glioblastoma antigen discoveryâ€"foundations for immunotherapy. Journal of Neuro-Oncology, 2015, 123, 347-358.	2.9	7
77	Single-suture craniosynostosis and the epigenome: current evidence and a review of epigenetic principles. Neurosurgical Focus, 2021, 50, E10.	2.3	7
78	Abducens Nerve Avulsion and Facial Nerve Palsy After Temporal Bone Fracture: A Rare Concomitance of Injuries. World Neurosurgery, 2016, 88, 689.e5-689.e8.	1.3	6
79	Social determinants of health and the prediction of 90-day mortality among brain tumor patients. Journal of Neurosurgery, 2022, 137, 1338-1346.	1.6	6
80	Adult Spinal Deformity Surgery in Patients With Movement Disorders. Spine, 2020, 45, E288-E295.	2.0	5
81	Timing of Adjuvant Radiation Therapy and Risk of Wound-Related Complications Among Patients With Spinal Metastatic Disease. Global Spine Journal, 2021, 11, 44-49.	2.3	5
82	Association of Race with Early Outcomes of Elective Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis: Propensity-Matched and Subgroup Analysis. World Neurosurgery, 2021, 150, e176-e181.	1.3	5
83	Perspective on â€œThe Role of Adjuvant Radiotherapy After Gross Total Resection of Atypical Meningiomasâ€. World Neurosurgery, 2015, 83, 737-738.	1.3	4
84	Lumbar Puncture for the Injection of Intrathecal Fluorescein: Should It Be Avoided in a Subset of Patients Undergoing Endoscopic Endonasal Resection of Sellar and Parasellar Lesions?. Journal of Neurological Surgery, Part B: Skull Base, 2018, 79, 554-558.	0.8	4
85	Defining and describing treatment heterogeneity in new-onset idiopathic lower back and extremity pain through reconstruction of longitudinal care sequences. Spine Journal, 2021, 21, 1993-2002.	1.3	4
86	Overview of Algorithms for Natural Language Processing and Time Series Analyses. Acta Neurochirurgica Supplementum, 2022, 134, 221-242.	1.0	4
87	Neural Placode Tissue Derived From Myelomeningocele Repair Serves as a Viable Source of Oligodendrocyte Progenitor Cells. Neurosurgery, 2015, 77, 794-802.	1.1	3
88	Impact of Inpatient Venous Thromboembolism Continues After Discharge. Clinical Spine Surgery, 2017, 30, E1392-E1398.	1.3	3
89	Long-Term Supratentorial Radiologic Effects of Surgery and Local Radiation in Children with Infratentorial Ependymoma. World Neurosurgery, 2019, 122, e1300-e1304.	1.3	3
90	Utility of prediction model score: a proposed tool to standardize the performance and generalizability of clinical predictive models based on systematic review. Journal of Neurosurgery: Spine, 2021, 34, 779-787.	1.7	3

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91	Deployment of Clinical Prediction Models: A Practical Guide to Nomograms and Online Calculators. Acta Neurochirurgica Supplementum, 2022, 134, 101-108.	1.0	3
92	Predicting High-Value Care Outcomes After Surgery for Non–Skull Base Meningiomas. World Neurosurgery, 2022, 159, e130-e138.	1.3	3
93	Longitudinal monitoring of diffuse midline glioma using liquid biopsy. Neuro-Oncology, 2022, 24, 1375-1376.	1.2	3
94	TO THE EDITOR:. Spine, 2019, 44, E1109-E1110.	2.0	2
95	Randomized Controlled Trials in Functional Neurosurgery—Association of Device Approval Status and Trial Quality. Neuromodulation, 2020, 23, 496-501.	0.8	2
96	Opioid Prescribing Patterns for Low Back Pain Among Commercially Insured Children. Spine, 2020, 45, E1365-E1366.	2.0	2
97	Opinion & Special Articles: Shared Decision-Making During the COVID-19 Pandemic. Neurology, 2021, 96, e2558-e2560.	1.1	2
98	Medicare savings from conservative management of low back pain. American Journal of Managed Care, 2018, 24, e332-e337.	1.1	2
99	Healing of type II odontoid fracture without surgery in an octogenarian – Case report and literature review. Journal of Clinical Neuroscience, 2019, 64, 23-24.	1.5	1
100	Assessment of Public Opinion on Transparency at the US Food and Drug Administration. JAMA Network Open, 2022, 5, e220026.	5.9	1
101	Traumatic sacral dermoid cyst rupture with intracranial subarachnoid seeding of lipid particles: illustrative case. Journal of Neurosurgery Case Lessons, 2021, 2, .	0.3	1
102	Stabilization of the Craniocervical Junction Following Resection of Chordomas and Chondrosarcomas of the Skull Base and Spine. , 2018, , 271-278.		0