

# Tej D Azad

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Overview of Algorithms for Natural Language Processing and Time Series Analyses. Acta Neurochirurgica Supplementum, 2022, 134, 221-242.	1.0	4
2	A Brief History of Machine Learning in Neurosurgery. Acta Neurochirurgica Supplementum, 2022, 134, 245-250.	1.0	11
3	Deployment of Clinical Prediction Models: A Practical Guide to Nomograms and Online Calculators. Acta Neurochirurgica Supplementum, 2022, 134, 101-108.	1.0	3
4	Assessment of Public Opinion on Transparency at the US Food and Drug Administration. JAMA Network Open, 2022, 5, e220026.	5.9	1
5	Predicting High-Value Care Outcomes After Surgery for Non-“Skull Base Meningiomas. World Neurosurgery, 2022, 159, e130-e138.	1.3	3
6	Endotypes and the Path to Precision in Moderate and Severe Traumatic Brain Injury. Neurocritical Care, 2022, 37, 259-266.	2.4	9
7	Longitudinal monitoring of diffuse midline glioma using liquid biopsy. Neuro-Oncology, 2022, 24, 1375-1376.	1.2	3
8	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
9	Adoption of awake spine surgery “ trends from a national registry over 14 years. Spine Journal, 2022, 22, 1601-1609.	1.3	9
10	Fostering reproducibility and generalizability in machine learning for clinical prediction modeling in spine surgery. Spine Journal, 2021, 21, 1610-1616.	1.3	22
11	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
12	Opinion & Special Articles: Shared Decision-Making During the COVID-19 Pandemic. Neurology, 2021, 96, e2558-e2560.	1.1	2
13	Prediction Models in Degenerative Spine Surgery: A Systematic Review. Global Spine Journal, 2021, 11, 79S-88S.	2.3	16
14	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
15	Single-suture craniostomy and the epigenome: current evidence and a review of epigenetic principles. Neurosurgical Focus, 2021, 50, E10.	2.3	7
16	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
17	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
18	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

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19	A Comprehensive Circulating Tumor DNA Assay for Detection of Translocation and Copy-Number Changes in Pediatric Sarcomas. <i>Molecular Cancer Therapeutics</i> , 2021, 20, 2016-2025.	4.1	15
20	Traumatic sacral dermoid cyst rupture with intracranial subarachnoid seeding of lipid particles: illustrative case. <i>Journal of Neurosurgery Case Lessons</i> , 2021, 2, .	0.3	1
21	Validation and Application for the Berlin Grading System of Moyamoya Disease in Adult Patients. <i>Neurosurgery</i> , 2020, 86, 203-212.	1.1	25
22	Lumboperitoneal and Ventriculoperitoneal Shunting for Idiopathic Intracranial Hypertension Demonstrate Comparable Failure and Complication Rates. <i>Neurosurgery</i> , 2020, 86, 272-280.	1.1	27
23	Trends in Anterior Lumbar Interbody Fusion in the United States. <i>Clinical Spine Surgery</i> , 2020, 33, E226-E230.	1.3	39
24	Circulating Tumor DNA Analysis for Detection of Minimal Residual Disease After Chemoradiotherapy for Localized Esophageal Cancer. <i>Gastroenterology</i> , 2020, 158, 494-505.e6.	1.3	147
25	Patterns of Opioid and Benzodiazepine Use in Opioid-Naïve Patients with Newly Diagnosed Low Back and Lower Extremity Pain. <i>Journal of General Internal Medicine</i> , 2020, 35, 291-297.	2.6	21
26	Randomized Controlled Trials in Functional Neurosurgery—Association of Device Approval Status and Trial Quality. <i>Neuromodulation</i> , 2020, 23, 496-501.	0.8	2
27	Adult Spinal Deformity Surgery in Patients With Movement Disorders. <i>Spine</i> , 2020, 45, E288-E295.	2.0	5
28	Opioid Prescribing Patterns for Low Back Pain Among Commercially Insured Children. <i>Spine</i> , 2020, 45, E1365-E1366.	2.0	2
29	Neurosurgical Randomized Trials in Low- and Middle-Income Countries. <i>Neurosurgery</i> , 2020, 87, 476-483.	1.1	41
30	Integrating genomic features for non-invasive early lung cancer detection. <i>Nature</i> , 2020, 580, 245-251.	27.8	379
31	Robotic Spine Surgery: Current State in Minimally Invasive Surgery. <i>Global Spine Journal</i> , 2020, 10, 34S-40S.	2.3	47
32	Patterns of Care and Age-Specific Impact of Extent of Resection and Adjuvant Radiotherapy in Pediatric Pineoblastoma. <i>Neurosurgery</i> , 2020, 86, E426-E435.	1.1	11
33	Robot-Assisted versus Freehand Instrumentation in Short-Segment Lumbar Fusion: Experience with Real-Time Image-Guided Spinal Robot. <i>World Neurosurgery</i> , 2020, 136, e635-e645.	1.3	44
34	Evaluating Shunt Survival Following Ventriculoperitoneal Shunting with and without Stereotactic Navigation in Previously Shunt-Naïve Patients. <i>World Neurosurgery</i> , 2020, 136, e671-e682.	1.3	13
35	A predictive-modeling based screening tool for prolonged opioid use after surgical management of low back and lower extremity pain. <i>Spine Journal</i> , 2020, 20, 1184-1195.	1.3	19
36	Limitations of functional neuroimaging for patient selection and surgical planning in glioma surgery. <i>Neurosurgical Focus</i> , 2020, 48, E12.	2.3	51

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37	Liquid biopsy for pediatric diffuse midline glioma: a review of circulating tumor DNA and cerebrospinal fluid tumor DNA. <i>Neurosurgical Focus</i> , 2020, 48, E9.	2.3	36
38	Molecular foundations of primary spinal tumorsâ€”implications for surgical management. <i>Annals of Translational Medicine</i> , 2019, 7, 222-222.	1.7	10
39	New spinal robotic technologies. <i>Frontiers of Medicine</i> , 2019, 13, 723-729.	3.4	29
40	Laminectomy Versus Corpectomy for Spinal Metastatic Diseaseâ€”Complications, Costs, and Quality Outcomes. <i>World Neurosurgery</i> , 2019, 131, e468-e473.	1.3	21
41	A Descriptive Analysis of Spinal Cord Arteriovenous Malformations: Clinical Features, Outcomes, and Trends in Management. <i>World Neurosurgery</i> , 2019, 131, e579-e585.	1.3	15
42	Prognostic Factors and Treatment Patterns in the Management of Giant Cell Glioblastoma. <i>World Neurosurgery</i> , 2019, 128, e217-e224.	1.3	12
43	A machine learning approach for predictive models of adverse events following spine surgery. <i>Spine Journal</i> , 2019, 19, 1772-1781.	1.3	49
44	Expenditures and Health Care Utilization Among Adults With Newly Diagnosed Low Back and Lower Extremity Pain. <i>JAMA Network Open</i> , 2019, 2, e193676.	5.9	119
45	Detection of Solid Tumor Molecular Residual Disease (MRD) Using Circulating Tumor DNA (ctDNA). <i>Molecular Diagnosis and Therapy</i> , 2019, 23, 311-331.	3.8	123
46	Healing of type II odontoid fracture without surgery in an octogenarian â€” Case report and literature review. <i>Journal of Clinical Neuroscience</i> , 2019, 64, 23-24.	1.5	1
47	TO THE EDITOR:. <i>Spine</i> , 2019, 44, E1109-E1110.	2.0	2
48	Initial Provider Specialty Is Associated With Long-term Opiate Use in Patients With Newly Diagnosed Low Back and Lower Extremity Pain. <i>Spine</i> , 2019, 44, 211-218.	2.0	24
49	Genomic Landscape of Intramedullary Spinal Cord Gliomas. <i>Scientific Reports</i> , 2019, 9, 18722.	3.3	28
50	Microglia are effector cells of CD47-SIRPÎ± antiphagocytic axis disruption against glioblastoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 997-1006.	7.1	183
51	Long-Term Supratentorial Radiologic Effects of Surgery and Local Radiation in Children with Infratentorial Ependymoma. <i>World Neurosurgery</i> , 2019, 122, e1300-e1304.	1.3	3
52	Contralateral acute vascular occlusion following revascularization surgery for moyamoya disease. <i>Journal of Neurosurgery</i> , 2019, 131, 1702-1708.	1.6	8
53	Diagnostic Utility of Intraoperative Neurophysiological Monitoring for Intramedullary Spinal Cord Tumors. <i>Clinical Spine Surgery</i> , 2018, 31, 112-119.	1.3	18
54	Unsupervised Analysis of Transcriptomics in Bacterial Sepsis Across Multiple Datasets Reveals Three Robust Clusters. <i>Critical Care Medicine</i> , 2018, 46, 915-925.	0.9	219

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55	Spontaneous Intrauterine Depressed Skull Fractures: Report of 2 Cases Requiring Neurosurgical Intervention and Literature Review. <i>World Neurosurgery</i> , 2018, 110, 256-262.	1.3	9
56	Outcomes of cervical laminoplasty—Population-level analysis of a national longitudinal database. <i>Journal of Clinical Neuroscience</i> , 2018, 48, 66-70.	1.5	16
57	Postoperative Opioid Use, Complications, and Costs in Surgical Management of Lumbar Spondylolisthesis. <i>Spine</i> , 2018, 43, 1080-1088.	2.0	10
58	Stabilization of the Craniocervical Junction Following Resection of Chordomas and Chondrosarcomas of the Skull Base and Spine. , 2018, , 271-278.		0
59	Leveraging heterogeneity across multiple datasets increases cell-mixture deconvolution accuracy and reduces biological and technical biases. <i>Nature Communications</i> , 2018, 9, 4735.	12.8	128
60	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?. <i>Journal of Neurological Surgery, Part B: Skull Base</i> , 2018, 79, 554-558.	0.8	4
61	Long-Term Effectiveness of Gross-Total Resection for Symptomatic Spinal Cord Cavernous Malformations. <i>Neurosurgery</i> , 2018, 83, 1201-1208.	1.1	21
62	Notch1 regulates the initiation of metastasis and self-renewal of Group 3 medulloblastoma. <i>Nature Communications</i> , 2018, 9, 4121.	12.8	36
63	Neurosurgical Randomized Controlled Trials—Distance Travelled. <i>Neurosurgery</i> , 2018, 82, 604-612.	1.1	21
64	Surgical outcomes of pediatric spinal cord astrocytomas: systematic review and meta-analysis. <i>Journal of Neurosurgery: Pediatrics</i> , 2018, 22, 404-410.	1.3	25
65	Geographic variation in the surgical management of lumbar spondylolisthesis: characterizing practice patterns and outcomes. <i>Spine Journal</i> , 2018, 18, 2232-2238.	1.3	16
66	Inflammatory macrophage-associated 3-gene signature predicts subclinical allograft injury and graft survival. <i>JCI Insight</i> , 2018, 3, .	5.0	27
67	Medicare savings from conservative management of low back pain. <i>American Journal of Managed Care</i> , 2018, 24, e332-e337.	1.1	2
68	Predicting complication risk in spine surgery: a prospective analysis of a novel risk assessment tool. <i>Journal of Neurosurgery: Spine</i> , 2017, 27, 81-91.	1.7	81
69	Precision annotation of digital samples in NCBI's gene expression omnibus. <i>Scientific Data</i> , 2017, 4, 170125.	5.3	44
70	Early Detection of Molecular Residual Disease in Localized Lung Cancer by Circulating Tumor DNA Profiling. <i>Cancer Discovery</i> , 2017, 7, 1394-1403.	9.4	701
71	Reverse phase protein arrays enable glioblastoma molecular subtyping. <i>Journal of Neuro-Oncology</i> , 2017, 131, 437-448.	2.9	9
72	Endoscopic vs. Microscopic Resection of Sellar Lesions—A Matched Analysis of Clinical and Socioeconomic Outcomes. <i>Frontiers in Surgery</i> , 2017, 4, 33.	1.4	12

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73	Impact of Inpatient Venous Thromboembolism Continues After Discharge. <i>Clinical Spine Surgery</i> , 2017, 30, E1392-E1398.	1.3	3
74	Size and distribution of the global volume of surgery in 2012. <i>Bulletin of the World Health Organization</i> , 2016, 94, 201-209F.	3.3	447
75	Anti-CD47 Treatment Stimulates Phagocytosis of Glioblastoma by M1 and M2 Polarized Macrophages and Promotes M1 Polarized Macrophages In Vivo. <i>PLoS ONE</i> , 2016, 11, e0153550.	2.5	221
76	Surgical outcomes of cervical spondylotic myelopathy: an analysis of a national, administrative, longitudinal database. <i>Neurosurgical Focus</i> , 2016, 40, E11.	2.3	57
77	Cervical Spondylotic Myelopathy. <i>Clinical Spine Surgery</i> , 2016, 29, 408-414.	1.3	109
78	Delayed Presentation of Sciatic Nerve Injury after Total Hip Arthroplasty: Neurosurgical Considerations, Diagnosis, and Management. <i>Journal of Neurological Surgery Reports</i> , 2016, 77, e134-e138.	0.6	8
79	Neurorestoration after stroke. <i>Neurosurgical Focus</i> , 2016, 40, E2.	2.3	72
80	Heparan sulfate proteoglycans mediate A $\beta$ -induced oxidative stress and hypercontractility in cultured vascular smooth muscle cells. <i>Molecular Neurodegeneration</i> , 2016, 11, 9.	10.8	25
81	Trigeminal and sphenopalatine ganglion stimulation for intractable craniofacial pain—case series and literature review. <i>Acta Neurochirurgica</i> , 2016, 158, 513-520.	1.7	24
82	Abducens Nerve Avulsion and Facial Nerve Palsy After Temporal Bone Fracture: A Rare Concomitance of Injuries. <i>World Neurosurgery</i> , 2016, 88, 689.e5-689.e8.	1.3	6
83	Junior Seau: An Illustrative Case of Chronic Traumatic Encephalopathy and Update on Chronic Sports-Related Head Injury. <i>World Neurosurgery</i> , 2016, 86, 515.e11-515.e16.	1.3	12
84	Building an electronic health record integrated quality of life outcomes registry for spine surgery. <i>Journal of Neurosurgery: Spine</i> , 2016, 24, 176-185.	1.7	31
85	Stereotactic radiosurgery for metastasis to the craniovertebral junction preserves spine stability and offers symptomatic relief. <i>Journal of Neurosurgery: Spine</i> , 2016, 24, 241-247.	1.7	16
86	Telemedical Education: Training Digital Natives in Telemedicine. <i>Journal of Medical Internet Research</i> , 2016, 18, e193.	4.3	92
87	Anterior Versus Posterior Approach for Multilevel Degenerative Cervical Disease. <i>Spine</i> , 2015, 40, 1033-1038.	2.0	54
88	Neural Placode Tissue Derived From Myelomeningocele Repair Serves as a Viable Source of Oligodendrocyte Progenitor Cells. <i>Neurosurgery</i> , 2015, 77, 794-802.	1.1	3
89	Perspective on “The Role of Adjuvant Radiotherapy After Gross Total Resection of Atypical Meningiomas”. <i>World Neurosurgery</i> , 2015, 83, 737-738.	1.3	4
90	Glioblastoma stem cells and stem cell-targeting immunotherapies. <i>Journal of Neuro-Oncology</i> , 2015, 123, 449-457.	2.9	25

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91	Glioblastoma antigen discoveryâ€”foundations for immunotherapy. <i>Journal of Neuro-Oncology</i> , 2015, 123, 347-358.	2.9	7
92	Nelson Syndrome: Update on Therapeutic Approaches. <i>World Neurosurgery</i> , 2015, 83, 1135-1140.	1.3	16
93	Estimate of the global volume of surgery in 2012: an assessment supporting improved health outcomes. <i>Lancet, The</i> , 2015, 385, S11.	13.7	578
94	Avoidable maternal and neonatal deaths associated with improving access to caesarean delivery in countries with low caesarean delivery rates: an ecological modelling analysis. <i>Lancet, The</i> , 2015, 385, S33.	13.7	14
95	Therapeutic strategies to improve drug delivery across the blood-brain barrier. <i>Neurosurgical Focus</i> , 2015, 38, E9.	2.3	96
96	Magnetic resonance image features identify glioblastoma phenotypic subtypes with distinct molecular pathway activities. <i>Science Translational Medicine</i> , 2015, 7, 303ra138.	12.4	227
97	Improved capture of adverse events after spinal surgery procedures with a longitudinal administrative database. <i>Journal of Neurosurgery: Spine</i> , 2015, 23, 374-382.	1.7	25
98	Pediatric Central Nervous System Tumors in Nepal: Retrospective Analysis and Literature Review of Low- and Middle-Income Countries. <i>World Neurosurgery</i> , 2015, 84, 1832-1837.	1.3	14
99	Relationship Between Cesarean Delivery Rate and Maternal and Neonatal Mortality. <i>JAMA - Journal of the American Medical Association</i> , 2015, 314, 2263.	7.4	431
100	Retrosigmoid Versus Translabyrinthine Approach for Acoustic Neuroma Resection: An Assessment of Complications and Payments in a Longitudinal Administrative Database. <i>Cureus</i> , 2015, 7, e369.	0.5	17
101	The Alzheimerâ€™s disease-8 and Montreal Cognitive Assessment as screening tools for neurocognitive impairment in HIV-infected persons. <i>Journal of NeuroVirology</i> , 2013, 19, 109-116.	2.1	54
102	Endothelial Nitric Oxide Synthase Mediates Endogenous Protection Against Subarachnoid Hemorrhage-Induced Cerebral Vasospasm. <i>Stroke</i> , 2011, 42, 776-782.	2.0	92