

# Arya Nabavi

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

3,241  
citations

257450

24  
h-index

276875

41  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2595  
citing authors

#	ARTICLE	IF	CITATIONS
1	Serial Intraoperative Magnetic Resonance Imaging of Brain Shift. <i>Neurosurgery</i> , 2001, 48, 787-798.	1.1	367
2	An integrated visualization system for surgical planning and guidance using image fusion and an open MR. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 13, 967-975.	3.4	327
3	Craniotomy for Tumor Treatment in an Intraoperative Magnetic Resonance Imaging Unit. <i>Neurosurgery</i> , 1999, 45, 423-433.	1.1	289
4	Serial Intraoperative Magnetic Resonance Imaging of Brain Shift. <i>Neurosurgery</i> , 2001, 48, 787-798.	1.1	278
5	Glioblastoma multiforme—report of 267 cases treated at a single institution. <i>World Neurosurgery</i> , 2005, 63, 162-169.	1.3	219
6	Serial registration of intraoperative MR images of the brain. <i>Medical Image Analysis</i> , 2002, 6, 337-359.	11.6	184
7	FIVE-AMINOLEVULINIC ACID FOR FLUORESCENCE-GUIDED RESECTION OF RECURRENT MALIGNANT GLIOMAS. <i>Neurosurgery</i> , 2009, 65, 1070-1077.	1.1	169
8	Model-driven brain shift compensation. <i>Medical Image Analysis</i> , 2002, 6, 361-373.	11.6	150
9	Glioblastoma: Clinical characteristics, prognostic factors and survival in 492 patients. <i>Clinical Neurology and Neurosurgery</i> , 2012, 114, 840-845.	1.4	133
10	MR Imaging-guided Prostate Biopsy with Surgical Navigation Software: Device Validation and Feasibility. <i>Radiology</i> , 2001, 220, 263-268.	7.3	122
11	Low-grade Glioma Surgery in Intraoperative Magnetic Resonance Imaging. <i>Neurosurgery</i> , 2016, 78, 775-786.	1.1	109
12	An Integrated Visualization System for Surgical Planning and Guidance Using Image Fusion and Interventional Imaging. <i>Lecture Notes in Computer Science</i> , 1999, , 809-819.	1.3	104
13	Intra-operative MR guidance during trans-sphenoidal pituitary resection: Preliminary results. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 13, 136-141.	3.4	95
14	Integration of interventional MRI with computer-assisted surgery. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 13, 69-77.	3.4	95
15	Three-Dimensional Optical Flow Method for Measurement of Volumetric Brain Deformation from Intraoperative MR Images. <i>Journal of Computer Assisted Tomography</i> , 2000, 24, 531-538.	0.9	60
16	Patient Perception of Combined Awake Brain Tumor Surgery and Intraoperative 1.5-T Magnetic Resonance Imaging. <i>Neurosurgery</i> , 2010, 67, 594-600.	1.1	57
17	Intraoperative diffusion imaging on a 0.5 Tesla interventional scanner. <i>Journal of Magnetic Resonance Imaging</i> , 2001, 13, 115-119.	3.4	55
18	Evaluation of Diffusion Tensor Imaging-Based Tractography of the Corticospinal Tract: A Correlative Study With Intraoperative Magnetic Resonance Imaging and Direct Electrical Subcortical Stimulation. <i>Neurosurgery</i> , 2017, 80, 287-299.	1.1	43

#	ARTICLE	IF	CITATIONS
19	Awake Craniotomy and Intraoperative Magnetic Resonance Imaging. Topics in Magnetic Resonance Imaging, 2008, 19, 191-196.	1.2	40
20	Temporal changes in magnetic resonance imaging characteristics of Gliadel wafers and of the adjacent brain parenchyma. Neuro-Oncology, 2012, 14, 482-490.	1.2	33
21	High-Field iMRI in Glioblastoma Surgery: Improvement of Resection Radicality and Survival for the Patient?. Acta Neurochirurgica Supplementum, 2011, 109, 103-106.	1.0	30
22	Space-occupying cyst development in the resection cavity of malignant gliomas following Gliadel® implantation – incidence, therapeutic strategies, and outcome. Journal of Clinical Neuroscience, 2011, 18, 347-351.	1.5	30
23	Intraoperative dynamic susceptibility contrast weighted magnetic resonance imaging (iDSC-MRI) – Technical considerations and feasibility. NeuroImage, 2009, 45, 38-43.	4.2	29
24	A Survey of auditory display in image-guided interventions. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1665-1676.	2.8	29
25	Steps Toward a Stereo-Camera-Guided Biomechanical Model for Brain Shift Compensation. Lecture Notes in Computer Science, 2001, , 183-189.	1.3	21
26	Intraoperative MRI with 1.5 Tesla in Neurosurgery. Neurosurgery Clinics of North America, 2009, 20, 163-171.	1.7	18
27	Intraoperative dynamic susceptibility contrast MRI (iDSC-MRI) is as reliable as preoperatively acquired perfusion mapping. NeuroImage, 2010, 49, 2158-2162.	4.2	18
28	Computer-assisted planning for a concentric tube robotic system in neurosurgery. International Journal of Computer Assisted Radiology and Surgery, 2019, 14, 335-344.	2.8	18
29	Contemporary use of intraoperative imaging in glioma surgery: A survey among EANS members. Clinical Neurology and Neurosurgery, 2017, 163, 133-141.	1.4	17
30	Growth pattern of tumor recurrence following bis-chloroethylnitrosourea (BCNU) wafer implantation in malignant glioma. Journal of Clinical Neuroscience, 2013, 20, 429-434.	1.5	16
31	Fast and Accurate Automatic Registration for MR-Guided Procedures Using Active Microcoils. IEEE Transactions on Medical Imaging, 2007, 26, 385-392.	8.9	15
32	Assessment of quantitative corticospinal tract diffusion changes in patients affected by subcortical gliomas using common available navigation software. Clinical Neurology and Neurosurgery, 2015, 136, 1-4.	1.4	12
33	Motion robust imaging for continuous intraoperative MRI. Journal of Magnetic Resonance Imaging, 2001, 13, 158-161.	3.4	11
34	Rapid recovery of motor and cognitive functions after resection of a right frontal lobe meningioma in a child. Child's Nervous System, 2010, 26, 105-111.	1.1	10
35	Role of Delta-Notch signaling in cerebral cavernous malformations. Neurosurgical Review, 2016, 39, 581-589.	2.4	9
36	Brain Shift Correction Based on a Boundary Element Biomechanical Model with Different Material Properties. Lecture Notes in Computer Science, 2003, , 41-49.	1.3	6

#	ARTICLE	IF	CITATIONS
37	Magnetic Resonance Imaging-Apparent Diffusion Coefficient Assessment of Vestibular Schwannomas: Systematic Approach, Methodology, and Pitfalls. <i>World Neurosurgery</i> , 2019, 125, e820-e823.	1.3	4
38	Computer simulation of tumour resection-induced brain deformation by a meshless approach. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, 38, e3539.	2.1	4
39	Automatic framework for patient-specific modelling of tumour resection-induced brain shift. <i>Computers in Biology and Medicine</i> , 2022, 143, 105271.	7.0	4
40	Surgical Navigation with Intraoperative Imaging. , 2012, , 12-20.		3
41	Eloquent Lower Grade Gliomas, a Highly Vulnerable Cohort: Assessment of Patients' Functional Outcome After Surgery Based on the LoG-Glio Registry. <i>Frontiers in Oncology</i> , 2022, 12, 845992.	2.8	3
42	Clinical Aspects of Gliomas. <i>Medical Laser Application: International Journal for Laser Treatment and Research</i> , 2002, 17, 91-104.	0.3	2
43	Direct Cortical Stimulation and fMRI. , 2013, , 169-175.		1
44	Brain Shift and Updated Intraoperative Navigation with Intraoperative MRI. , 2014, , 485-495.		1
45	Direct Cortical Stimulation and fMRI. , 2020, , 311-320.		0