Arya Nabavi

List of Publications by Year in descending order

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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	Computer simulation of tumour <scp>resectionâ€induced</scp> brain deformation by a meshless approach. International Journal for Numerical Methods in Biomedical Engineering, 2022, 38, e3539.	2.1	4
2	Automatic framework for patient-specific modelling of tumour resection-induced brain shift. Computers in Biology and Medicine, 2022, 143, 105271.	7.0	4
3	Eloquent Lower Grade Gliomas, a Highly Vulnerable Cohort: Assessment of Patientsâ€™ Functional Outcome After Surgery Based on the LoG-Glio Registry. Frontiers in Oncology, 2022, 12, 845992.	2.8	3
4	Direct Cortical Stimulation and fMRI. , 2020, , 311-320.		0
5	Magnetic Resonance Imaging-Apparent Diffusion Coefficient Assessment of Vestibular Schwannomas: Systematic Approach, Methodology, and Pitfalls. World Neurosurgery, 2019, 125, e820-e823.	1.3	4
6	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
7	Evaluation of Diffusion Tensor Imagingâ€“Based Tractography of the Corticospinal Tract: A Correlative Study With Intraoperative Magnetic Resonance Imaging and Direct Electrical Subcortical Stimulation. Neurosurgery, 2017, 80, 287-299.	1.1	43
8	Contemporary use of intraoperative imaging in glioma surgery: A survey among EANS members. Clinical Neurology and Neurosurgery, 2017, 163, 133-141.	1.4	17
9	A Survey of auditory display in image-guided interventions. International Journal of Computer Assisted Radiology and Surgery, 2017, 12, 1665-1676.	2.8	29
10	Low-grade Glioma Surgery in Intraoperative Magnetic Resonance Imaging. Neurosurgery, 2016, 78, 775-786.	1.1	109
11	Role of Delta-Notch signaling in cerebral cavernous malformations. Neurosurgical Review, 2016, 39, 581-589.	2.4	9
12	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
13	Brain Shift and Updated Intraoperative Navigation with Intraoperative MRI. , 2014, , 485-495.		1
14	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
15	Direct Cortical Stimulation and fMRI. , 2013, , 169-175.		1
16	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
17	Glioblastoma: Clinical characteristics, prognostic factors and survival in 492 patients. Clinical Neurology and Neurosurgery, 2012, 114, 840-845.	1.4	133
18	Surgical Navigation with Intraoperative Imaging. , 2012, , 12-20.		3

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19	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
20	Space-occupying cyst development in the resection cavity of malignant gliomas following GliadelÂ® implantation â€“ incidence, therapeutic strategies, and outcome. Journal of Clinical Neuroscience, 2011, 18, 347-351.	1.5	30
21	Patient Perception of Combined Awake Brain Tumor Surgery and Intraoperative 1.5-T Magnetic Resonance Imaging. Neurosurgery, 2010, 67, 594-600.	1.1	57
22	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
23	Intraoperative dynamic susceptibility contrast MRI (iDSC-MRI) is as reliable as preoperatively acquired perfusion mapping. NeuroImage, 2010, 49, 2158-2162.	4.2	18
24	Intraoperative dynamic susceptibility contrast weighted magnetic resonance imaging (iDSC-MRI) â€” Technical considerations and feasibility. NeuroImage, 2009, 45, 38-43.	4.2	29
25	Intraoperative MRI with 1.5 Tesla in Neurosurgery. Neurosurgery Clinics of North America, 2009, 20, 163-171.	1.7	18
26	FIVE-AMINOLEVULINIC ACID FOR FLUORESCENCE-GUIDED RESECTION OF RECURRENT MALIGNANT GLIOMAS. Neurosurgery, 2009, 65, 1070-1077.	1.1	169
27	Awake Craniotomy and Intraoperative Magnetic Resonance Imaging. Topics in Magnetic Resonance Imaging, 2008, 19, 191-196.	1.2	40
28	Fast and Accurate Automatic Registration for MR-Guided Procedures Using Active Microcoils. IEEE Transactions on Medical Imaging, 2007, 26, 385-392.	8.9	15
29	Glioblastoma multiformeâ€”report of 267 cases treated at a single institution. World Neurosurgery, 2005, 63, 162-169.	1.3	219
30	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
31	Serial registration of intraoperative MR images of the brain. Medical Image Analysis, 2002, 6, 337-359.	11.6	184
32	Model-driven brain shift compensation. Medical Image Analysis, 2002, 6, 361-373.	11.6	150
33	Clinical Aspects of Gliomas. Medical Laser Application: International Journal for Laser Treatment and Research, 2002, 17, 91-104.	0.3	2
34	Serial Intraoperative Magnetic Resonance Imaging of Brain Shift. Neurosurgery, 2001, 48, 787-798.	1.1	367
35	Serial Intraoperative Magnetic Resonance Imaging of Brain Shift. Neurosurgery, 2001, 48, 787-798.	1.1	278
36	An integrated visualization system for surgical planning and guidance using image fusion and an open MR. Journal of Magnetic Resonance Imaging, 2001, 13, 967-975.	3.4	327

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37	Intraoperative diffusion imaging on a 0.5 Tesla interventional scanner. Journal of Magnetic Resonance Imaging, 2001, 13, 115-119.	3.4	55
38	Intra-operative MR guidance during trans-sphenoidal pituitary resection: Preliminary results. Journal of Magnetic Resonance Imaging, 2001, 13, 136-141.	3.4	95
39	Motion robust imaging for continuous intraoperative MRI. Journal of Magnetic Resonance Imaging, 2001, 13, 158-161.	3.4	11
40	Integration of interventional MRI with computer-assisted surgery. Journal of Magnetic Resonance Imaging, 2001, 13, 69-77.	3.4	95
41	MR Imaging-guided Prostate Biopsy with Surgical Navigation Software: Device Validation and Feasibility. Radiology, 2001, 220, 263-268.	7.3	122
42	Steps Toward a Stereo-Camera-Guided Biomechanical Model for Brain Shift Compensation. Lecture Notes in Computer Science, 2001, , 183-189.	1.3	21
43	Three-Dimensional Optical Flow Method for Measurement of Volumetric Brain Deformation from Intraoperative MR Images. Journal of Computer Assisted Tomography, 2000, 24, 531-538.	0.9	60
44	Craniotomy for Tumor Treatment in an Intraoperative Magnetic Resonance Imaging Unit. Neurosurgery, 1999, 45, 423-433.	1.1	289
45	An Integrated Visualization System for Surgical Planning and Guidance Using Image Fusion and Interventional Imaging. Lecture Notes in Computer Science, 1999, , 809-819.	1.3	104