

Alexandra Golby

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,646
citations

471509

17
h-index

315739

38
g-index

54
all docs

54
docs citations

54
times ranked

2473
citing authors

#	ARTICLE	IF	CITATIONS
1	Memory encoding in Alzheimer's disease: an fMRI study of explicit and implicit memory. <i>Brain</i> , 2005, 128, 773-787.	7.6	237
2	Neuronavigation in the surgical management of brain tumors: current and future trends. <i>Expert Review of Medical Devices</i> , 2012, 9, 491-500.	2.8	189
3	Non-rigid alignment of pre-operative MRI, fMRI, and DT-MRI with intra-operative MRI for enhanced visualization and navigation in image-guided neurosurgery. <i>NeuroImage</i> , 2007, 35, 609-624.	4.2	180
4	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. <i>Journal of Neuroimaging</i> , 2015, 25, 875-882.	2.0	147
5	Optical technologies for intraoperative neurosurgical guidance. <i>Neurosurgical Focus</i> , 2016, 40, E8.	2.3	96
6	Tractography dissection variability: What happens when 42 groups dissect 14 white matter bundles on the same dataset?. <i>NeuroImage</i> , 2021, 243, 118502.	4.2	94
7	Capturing intraoperative deformations: research experience at Brigham and Women's hospital. <i>Medical Image Analysis</i> , 2005, 9, 145-162.	11.6	75
8	REVIEW: MR elastography of brain tumors. <i>NeuroImage: Clinical</i> , 2020, 25, 102109.	2.7	65
9	Tensor-valued diffusion MRI in under 3 minutes: an initial survey of microscopic anisotropy and tissue heterogeneity in intracranial tumors. <i>Magnetic Resonance in Medicine</i> , 2020, 83, 608-620.	3.0	55
10	Focused Ultrasound Strategies for Brain Tumor Therapy. <i>Operative Neurosurgery</i> , 2020, 19, 9-18.	0.8	55
11	Non-rigid registration of 3D ultrasound for neurosurgery using automatic feature detection and matching. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 1525-1538.	2.8	40
12	Clinical Applications and Future Directions of Functional MRI. <i>Seminars in Neurology</i> , 2013, 32, 466-475.	1.4	35
13	Multimodal navigated skull base tumor resection using image-based vascular and cranial nerve segmentation: A prospective pilot study. , 2015, 6, 172.		30
14	Toward Real-Time Image Guided Neurosurgery Using Distributed and Grid Computing. , 2006, , .		28
15	Multimodal Navigation in Endoscopic Transsphenoidal Resection of Pituitary Tumors Using Image-Based Vascular and Cranial Nerve Segmentation: A Prospective Validation Study. <i>World Neurosurgery</i> , 2016, 95, 406-413.	1.3	28
16	Functional MRI Task Comparison for Language Mapping in Neurosurgical Patients. <i>Journal of Neuroimaging</i> , 2019, 29, 348-356.	2.0	28
17	Pre-operative image-based segmentation of the cranial nerves and blood vessels in microvascular decompression: Can we prevent unnecessary explorations?. <i>Clinical Neurology and Neurosurgery</i> , 2015, 139, 159-165.	1.4	25
18	Challenges and Opportunities of Intraoperative 3D Ultrasound With Neuronavigation in Relation to Intraoperative MRI. <i>Frontiers in Oncology</i> , 2021, 11, 656519.	2.8	25

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19	The Value of Pre- and Intraoperative Adjuncts on the Extent of Resection of Hemispheric Low-Grade Gliomas: A Retrospective Analysis. <i>Journal of Neurological Surgery, Part A: Central European Neurosurgery</i> , 2016, 77, 079-087.	0.8	23
20	Quantitative Wide-Field Imaging Techniques for Fluorescence Guided Neurosurgery. <i>Frontiers in Surgery</i> , 2019, 6, 31.	1.4	21
21	COMPENSATION OF GEOMETRIC DISTORTION EFFECTS ON INTRAOPERATIVE MAGNETIC RESONANCE IMAGING FOR ENHANCED VISUALIZATION IN IMAGE-GUIDED NEUROSURGERY. <i>Operative Neurosurgery</i> , 2008, 62, 209-216.	0.8	17
22	Using the variogram for vector outlier screening: application to feature-based image registration. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2018, 13, 1871-1880.	2.8	17
23	Deformable MRI-Ultrasound registration using correlation-based attribute matching for brain shift correction: Accuracy and generality in multi-site data. <i>NeuroImage</i> , 2019, 202, 116094.	4.2	16
24	A Feature-Driven Active Framework for Ultrasound-Based Brain Shift Compensation. <i>Lecture Notes in Computer Science</i> , 2018, , 30-38.	1.3	11
25	Target receptor identification and subsequent treatment of resected brain tumors with encapsulated and engineered allogeneic stem cells. <i>Nature Communications</i> , 2022, 13, 2810.	12.8	10
26	On the Applicability of Registration Uncertainty. <i>Lecture Notes in Computer Science</i> , 2019, , 410-419.	1.3	9
27	Reactivation of Motor-Related Gamma Activity in Human NREM Sleep. <i>Frontiers in Neuroscience</i> , 2020, 14, 449.	2.8	8
28	Converting sounds to meaning with ventral semantic language networks: integration of interdisciplinary data on brain connectivity, direct electrical stimulation and clinical disconnection syndromes. <i>Brain Structure and Function</i> , 2022, 227, 1545-1564.	2.3	8
29	Sex Effect on Presurgical Language Mapping in Patients With a Brain Tumor. <i>Frontiers in Neuroscience</i> , 2020, 14, 4.	2.8	7
30	Intraoperative Use of Functional MRI for Surgical Decision Making after Limited or Infeasible Electroconvulsive Stimulation Mapping. <i>Journal of Neuroimaging</i> , 2020, 30, 184-191.	2.0	7
31	Deformation Aware Augmented Reality for Craniotomy Using 3D/2D Non-rigid Registration of Cortical Vessels. <i>Lecture Notes in Computer Science</i> , 2020, 12264, 735-744.	1.3	7
32	Newly discovered neuron-to-glioma communication: new noninvasive therapeutic opportunities on the horizon?. <i>Neuro-Oncology Advances</i> , 2021, 3, vdab018.	0.7	6
33	Are Registration Uncertainty and Error Monotonically Associated?. <i>Lecture Notes in Computer Science</i> , 2020, , 264-274.	1.3	6
34	Introduction: Utility of intraoperative imaging. <i>Neurosurgical Focus</i> , 2016, 40, E1.	2.3	5
35	Deformable MRI-Ultrasound Registration via Attribute Matching and Mutual-Saliency Weighting for Image-Guided Neurosurgery. <i>Lecture Notes in Computer Science</i> , 2018, , 165-171.	1.3	5
36	Adaptive Physics-Based Non-Rigid Registration for Immersive Image-Guided Neuronavigation Systems. <i>Frontiers in Digital Health</i> , 2020, 2, 613608.	2.8	5

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37	Deep Cortical Vessel Segmentation Driven By Data Augmentation With Neural Image Analogy. , 2021, , .		5
38	Computer simulation of tumour <scp>resection-induced</scp> brain deformation by a meshless approach. International Journal for Numerical Methods in Biomedical Engineering, 2022, 38, e3539.	2.1	4
39	Automatic framework for patient-specific modelling of tumour resection-induced brain shift. Computers in Biology and Medicine, 2022, 143, 105271.	7.0	4
40	Focal cortical dysplasia IIb presenting as slowly progressive aphasia mimicking a brain tumor. Seizure: the Journal of the British Epilepsy Association, 2014, 23, 161-163.	2.0	3
41	Alignment of cortical vessels viewed through the surgical microscope with preoperative imaging to compensate for brain shift. , 2020, 11315, .		3
42	NousNav: A low-cost neuronavigation system for deployment in lower-resource settings. International Journal of Computer Assisted Radiology and Surgery, 2022, 17, 1745-1750.	2.8	3
43	Abdominal Insufflation Is Associated With Increase of Intracranial Pressure in Patients With Normal Pressure Hydrocephalus. Operative Neurosurgery, 2020, 19, 53-56.	0.8	2
44	Predicted microscopic cortical brain images for optimal craniotomy positioning and visualisation. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2021, 9, 407-413.	1.9	1
45	NIMG-16. EXPLORATORY EVALUATION OF Q-SPACE TRAJECTORY IMAGING PARAMETERS AS NOVEL IMAGING BIOMARKERS FOR GLIOMAS. Neuro-Oncology, 2020, 22, ii150-ii150.	1.2	1
46	NI-18 * MULTIMODAL NAVIGATION IN ENDOSCOPIC TRANS-SPHENOIDAL RESECTION OF PITUITARY TUMORS USING IMAGE-BASED VASCULAR AND CRANIAL NERVE SEGMENTATION: A PROSPECTIVE VALIDATION STUDY. Neuro-Oncology, 2014, 16, v141-v141.	1.2	0
47	RTRB-21 SURVIVAL ANALYSIS OF 161 ELDERLY PATIENTS TREATED WITH RADIOTHERAPY WITH CONCOMITANT AND ADJUVANT TEMOZOLOMIDE. Neuro-Oncology, 2015, 17, v199.4-v200.	1.2	0
48	NIMG-09. CHARACTERIZING GLIOMA MICROENVIRONMENT WITH ULTRA-HIGH GRADIENT DIFFUSION MRI. Neuro-Oncology, 2017, 19, vi144-vi144.	1.2	0
49	EXTH-49. THERAPEUTIC EFFICACY OF ENGINEERED, HYDROGEL ENCAPSULATED BIMODAL MSC IN GLIOBLASTOMA STRATIFIED ON CELL SURFACE RECEPTOR EXPRESSION. Neuro-Oncology, 2019, 21, vi93-vi93.	1.2	0
50	Grid-Enabled Software Environment for Enhanced Dynamic Data-Driven Visualization and Navigation During Image-Guided Neurosurgery. Lecture Notes in Computer Science, 2007, , 980-987.	1.3	0
51	3D Printing and Intraoperative Neuronavigation Tailoring for Skull Base Reconstruction after Extended Endoscopic Endonasal Surgery. Journal of Neurological Surgery, Part B: Skull Base, 2018, 79, S1-S188.	0.8	0
52	Automatic non-rigid registration of preoperative MRI and intraoperative US for US-guided neurosurgery - A preliminary study. , 2021, , .		0