

# Miriam H A Bopp

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,256  
citations

430874

18  
h-index

377865

34  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1746  
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation of the extent of tumor volume resection and patient survival in surgery of glioblastoma multiforme with high-field intraoperative MRI guidance. <i>Neuro-Oncology</i> , 2011, 13, 1339-1348.	1.2	258
2	The Marburg-Münster Affective Disorders Cohort Study (MACS): A quality assurance protocol for MR neuroimaging data. <i>NeuroImage</i> , 2018, 172, 450-460.	4.2	80
3	Intraoperative Visualization of Fiber Tracking Based Reconstruction of Language Pathways in Glioma Surgery. <i>Neurosurgery</i> , 2012, 70, 911-920.	1.1	73
4	Implementation of augmented reality support in spine surgery. <i>European Spine Journal</i> , 2019, 28, 1697-1711.	2.2	73
5	Brain Shift Compensation and Neurosurgical Image Fusion Using Intraoperative MRI: Current Status and Future Challenges. <i>Critical Reviews in Biomedical Engineering</i> , 2012, 40, 175-185.	0.9	71
6	White matter integrity and symptom dimensions of schizophrenia: A diffusion tensor imaging study. <i>Schizophrenia Research</i> , 2017, 184, 59-68.	2.0	50
7	Merits and Limits of Tractography Techniques for the Uninitiated. <i>Advances and Technical Standards in Neurosurgery</i> , 2016, , 37-60.	0.5	49
8	Microscope-Based Augmented Reality in Degenerative Spine Surgery: Initial Experience. <i>World Neurosurgery</i> , 2019, 128, e541-e551.	1.3	47
9	Spine Surgery Supported by Augmented Reality. <i>Global Spine Journal</i> , 2020, 10, 41S-55S.	2.3	47
10	Augmented reality in intradural spinal tumor surgery. <i>Acta Neurochirurgica</i> , 2019, 161, 2181-2193.	1.7	45
11	Optic Radiation Fiber Tractography in Glioma Patients Based on High Angular Resolution Diffusion Imaging with Compressed Sensing Compared with Diffusion Tensor Imaging - Initial Experience. <i>PLoS ONE</i> , 2013, 8, e70973.	2.5	41
12	Reliable navigation registration in cranial and spine surgery based on intraoperative computed tomography. <i>Neurosurgical Focus</i> , 2019, 47, E11.	2.3	38
13	Augmented Reality in Transsphenoidal Surgery. <i>World Neurosurgery</i> , 2019, 125, e873-e883.	1.3	37
14	Intraoperative computed tomography as reliable navigation registration device in 200 cranial procedures. <i>Acta Neurochirurgica</i> , 2018, 160, 1681-1689.	1.7	33
15	Imaging-based programming of subthalamic nucleus deep brain stimulation in Parkinson's disease. <i>Brain Stimulation</i> , 2021, 14, 1109-1117.	1.6	24
16	Boundary estimation of fiber bundles derived from diffusion tensor images. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2011, 6, 1-11.	2.8	23
17	Nugget-Cut: A Segmentation Scheme for Spherically- and Elliptically-Shaped 3D Objects. <i>Lecture Notes in Computer Science</i> , 2010, , 373-382.	1.3	22
18	Preoperative 3-Dimensional Angiography Data and Intraoperative Real-Time Vascular Data Integrated in Microscope-Based Navigation by Automatic Patient Registration Applying Intraoperative Computed Tomography. <i>World Neurosurgery</i> , 2018, 113, e414-e425.	1.3	20

#	ARTICLE	IF	CITATIONS
19	Intermittent theta-burst stimulation moderates interaction between increment of N-Acetyl-Aspartate in anterior cingulate and improvement of unipolar depression. <i>Brain Stimulation</i> , 2020, 13, 943-952.	1.6	17
20	Segmentation of fiber tracts based on an accuracy analysis on diffusion tensor software phantoms. <i>NeuroImage</i> , 2011, 55, 532-544.	4.2	15
21	Indocyanine Green Angiography Visualized by Augmented Reality in Aneurysm Surgery. <i>World Neurosurgery</i> , 2020, 142, e307-e315.	1.3	14
22	Retrospective study of 229 surgically treated patients with brain metastases: Prognostic factors, outcome and comparison of recursive partitioning analysis and diagnosis-specific graded prognostic assessment. , 2017, 8, 259.		12
23	A Fast and Robust Graph-Based Approach for Boundary Estimation of Fiber Bundles Relying on Fractional Anisotropy Maps. , 2010, , .		11
24	DTI segmentation via the combined analysis of connectivity maps and tensor distances. <i>NeuroImage</i> , 2012, 60, 1025-1035.	4.2	11
25	Reconstruction of White Matter Tracts via Repeated Deterministic Streamline Tracking â€œ Initial Experience. <i>PLoS ONE</i> , 2013, 8, e63082.	2.5	11
26	LABâ€œQA2GO: A Free, Easy-to-Use Toolbox for the Quality Assessment of Magnetic Resonance Imaging Data. <i>Frontiers in Neuroscience</i> , 2019, 13, 688.	2.8	11
27	Intraoperative Computed Tomography-Based Navigation with Augmented Reality for Lateral Approaches to the Spine. <i>Brain Sciences</i> , 2021, 11, 646.	2.3	11
28	Standard navigation versus intraoperative computed tomography navigation in upper cervical spine trauma. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2019, 14, 169-182.	2.8	10
29	Microscope-Based Augmented Reality with Intraoperative Computed Tomography-Based Navigation for Resection of Skull Base Meningiomas in Consecutive Series of 39 Patients. <i>Cancers</i> , 2022, 14, 2302.	3.7	10
30	Navigated 3-Dimensional Intraoperative Ultrasound for Spine Surgery. <i>World Neurosurgery</i> , 2019, 131, e155-e169.	1.3	9
31	Utilizing Intraoperative Navigated 3D Color Doppler Ultrasound in Glioma Surgery. <i>Frontiers in Oncology</i> , 2021, 11, 656020.	2.8	8
32	Visualization of volume of tissue activated modeling in a clinical planning system for deep brain stimulation. <i>Journal of Neurosurgical Sciences</i> , 2024, 68, .	0.6	8
33	Initial Intraoperative Experience with Robotic-Assisted Pedicle Screw Placement with Cirqâ€™ Robotic Alignment: An Evaluation of the First 70 Screws. <i>Journal of Clinical Medicine</i> , 2021, 10, 5725.	2.4	8
34	The effect of pulsatile motion and cardiac-gating on reconstruction and diffusion tensor properties of the corticospinal tract. <i>Scientific Reports</i> , 2018, 8, 11204.	3.3	7
35	Comparing Fiducial-Based and Intraoperative Computed Tomography-Based Registration for Frameless Stereotactic Brain Biopsy. <i>Stereotactic and Functional Neurosurgery</i> , 2021, 99, 79-89.	1.5	7
36	Navigation-Supported Stereotaxy by Applying Intraoperative Computed Tomography. <i>World Neurosurgery</i> , 2018, 118, e584-e592.	1.3	6

#	ARTICLE	IF	CITATIONS
37	Navigated 3D Ultrasound in Brain Metastasis Surgery: Analyzing the Differences in Object Appearances in Ultrasound and Magnetic Resonance Imaging. Applied Sciences (Switzerland), 2020, 10, 7798.	2.5	6
38	Implementation of Intraoperative Computed Tomography for Deep Brain Stimulation: Pitfalls and Optimization of Workflow, Accuracy, and Radiation Exposure. World Neurosurgery, 2019, 124, e252-e265.	1.3	5
39	The German research consortium for the study of bipolar disorder (BipoLife): a magnetic resonance imaging study protocol. International Journal of Bipolar Disorders, 2021, 9, 37.	2.2	5
40	Radiogenomic Predictors of Recurrence in Glioblastoma—A Systematic Review. Journal of Personalized Medicine, 2022, 12, 402.	2.5	5
41	Navigated Intraoperative 3D Ultrasound in Glioblastoma Surgery: Analysis of Imaging Features and Impact on Extent of Resection. Frontiers in Neuroscience, 2022, 16, .	2.8	4
42	Preoperative volume determination for pituitary adenoma. Proceedings of SPIE, 2011, , .	0.8	3
43	Fiber tractography of the optic radiations: impact of diffusion model, voxel shape and orientation. Journal of Neurosurgical Sciences, 2021, 65, 494-502.	0.6	3
44	On the Reliability of Diffusion Neuroimaging. , 0, , .		3
45	Diffusion Kurtosis Imaging Fiber Tractography of Major White Matter Tracts in Neurosurgery. Brain Sciences, 2021, 11, 381.	2.3	2
46	The impact of position-orientation adaptive smoothing in diffusion weighted imaging—From diffusion metrics to fiber tractography. PLoS ONE, 2020, 15, e0233474.	2.5	1
47	MRI Guidance of Intracranial Tumor Resections. Medical Radiology, 2011, , 113-121.	0.1	0
48	Atlas-based fiber reconstruction from diffusion tensor MRI data. International Journal of Computer Assisted Radiology and Surgery, 2012, 7, 959-967.	2.8	0
49	Multimodality Navigation in Neurosurgery. , 2014, , 497-506.		0