Isaiah Norton

List of Publications by Year
in descending order

34 papers	2,809 citations	279798 23 h-index	454955 30 g-index
35 all docs	35 docs citations	35 times ranked	3466 citing authors

#	Article	IF	Citations
1	Interim clinical trial analysis of intraoperative mass spectrometry for breast cancer surgery. Npj Breast Cancer, 2021, 7, 116.	5.2	10
2	Intraoperative Use of Functional MRI for Surgical Decision Making after Limited or Infeasible Electrocortical Stimulation Mapping. Journal of Neuroimaging, 2020, 30, 184-191.	2.0	7
3	SlicerDMRI: Diffusion MRI and Tractography Research Software for Brain Cancer Surgery Planning and Visualization. JCO Clinical Cancer Informatics, 2020, 4, 299-309.	2.1	52
4	Creation of a novel trigeminal tractography atlas for automated trigeminal nerve identification. NeuroImage, 2020, 220, 117063.	4.2	17
5	Anatomical assessment of trigeminal nerve tractography using diffusion MRI: A comparison of acquisition b-values and single- and multi-fiber tracking strategies. NeuroImage: Clinical, 2020, 25, 102160.	2.7	25
6	Testâ€"retest reproducibility of white matter parcellation using diffusion MRI tractography fiber clustering. Human Brain Mapping, 2019, 40, 3041-3057.	3.6	61
7	Image Registration to Compensate for EPI Distortion in Patients with Brain Tumors: An Evaluation of Tractâ€Specific Effects. Journal of Neuroimaging, 2018, 28, 173-182.	2.0	15
8	An anatomically curated fiber clustering white matter atlas for consistent white matter tract parcellation across the lifespan. NeuroImage, 2018, 179, 429-447.	4.2	146
9	Investigation into local white matter abnormality in emotional processing and sensorimotor areas using an automatically annotated fiber clustering in major depressive disorder. NeuroImage, 2018, 181, 16-29.	4.2	34
10	Free water modeling of peritumoral edema using multi-fiber tractography: Application to tracking the arcuate fasciculus for neurosurgical planning. PLoS ONE, 2018, 13, e0197056.	2.5	40
11	SlicerDMRI: Open Source Diffusion MRI Software for Brain Cancer Research. Cancer Research, 2017, 77, e101-e103.	0.9	89
12	Automated connectivity-based groupwise cortical atlas generation: Application to data of neurosurgical patients with brain tumors for cortical parcellation prediction. , 2017, , .		5
13	Comparison between two white matter segmentation strategies: An investigation into white matter segmentation consistency. , 2017, , .		7
14	Automated white matter fiber tract identification in patients with brain tumors. NeuroImage: Clinical, 2017, 13, 138-153.	2.7	109
15	Corticospinal tract modeling for neurosurgical planning by tracking through regions of peritumoral edema and crossing fibers using two-tensor unscented Kalman filter tractography. International Journal of Computer Assisted Radiology and Surgery, 2016, 11, 1475-1486.	2.8	42
16	Label-Free Neurosurgical Pathology with Stimulated Raman Imaging. Cancer Research, 2016, 76, 3451-3462.	0.9	119
17	The DTI Challenge: Toward Standardized Evaluation of Diffusion Tensor Imaging Tractography for Neurosurgery. Journal of Neuroimaging, 2015, 25, 875-882.	2.0	147
18	MALDI mass spectrometry imaging analysis of pituitary adenomas for near-real-time tumor delineation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9978-9983.	7.1	73

#	Article	IF	Citations
19	Molecular typing of meningiomas by desorption electrospray ionization mass spectrometry imaging for surgical decision-making. International Journal of Mass Spectrometry, 2015, 377, 690-698.	1.5	46
20	Reconstruction of the arcuate fasciculus for surgical planning in the setting of peritumoral edema using two-tensor unscented Kalman filter tractography. NeuroImage: Clinical, 2015, 7, 815-822.	2.7	60
21	Reconstruction and feature selection for desorption electrospray ionization mass spectroscopy imagery. Proceedings of SPIE, 2014, 9036, 90360D.	0.8	3
22	Application of desorption electrospray ionization mass spectrometry imaging in breast cancer margin analysis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15184-15189.	7.1	207
23	Intraoperative mass spectrometry mapping of an onco-metabolite to guide brain tumor surgery. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11121-11126.	7.1	230
24	A Statistical Modeling Approach for Tumor-Type Identification in Surgical Neuropathology Using Tissue Mass Spectrometry Imaging. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 734-744.	6.3	11
25	Ambient mass spectrometry for the intraoperative molecular diagnosis of human brain tumors. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1611-1616.	7.1	251
26	Rapid, Label-Free Detection of Brain Tumors with Stimulated Raman Scattering Microscopy. Science Translational Medicine, 2013, 5, 201ra119.	12.4	398
27	Mass spectrometry imaging as a tool for surgical decision-making. Journal of Mass Spectrometry, 2013, 48, 1178-1187.	1.6	85
28	Distinctive lipid profiles of human breast cancer and adjacent normal tissues by desorption electrospray ionization mass spectrometry imaging.. Journal of Clinical Oncology, 2013, 31, 1132-1132.	1.6	0
29	Classifying Human Brain Tumors by Lipid Imaging with Mass Spectrometry. Cancer Research, 2012, 72, 645-654.	0.9	273
30	Recursive feature elimination for brain tumor classification using desorption electrospray ionization mass spectrometry imaging. , 2012, 2012, 5258-61.		15
31	Special Surgical Considerations for Functional Brain Mapping. Neurosurgery Clinics of North America, 2011, 22, 111-132.	1.7	39
32	Intraoperative Real-Time Querying of White Matter Tracts During Frameless Stereotactic Neuronavigation. Neurosurgery, 2011, 68, 506-516.	1.1	40
33	Interactive Diffusion Tensor Tractography Visualization for Neurosurgical Planning. Neurosurgery, 2011, 68, 496-505.	1.1	95
34	Development of Stereotactic Mass Spectrometry for Brain Tumor Surgery. Neurosurgery, 2011, 68, 280-290.	1.1	58