

# Peter F Neher

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

2,549  
citations

471509

17  
h-index

552781

26  
g-index

30  
all docs

30  
docs citations

30  
times ranked

3701  
citing authors

#	ARTICLE	IF	CITATIONS
1	Q-ball high-resolution fiber tractography of language associated tracts: quantitative evaluation of applicability for glioma resections. <i>Journal of Neurosurgical Sciences</i> , 2024, 68, .	0.6	4
2	Comparison of Diffusion Signal Models for Fiber Tractography in Eloquent Glioma Surgeryâ€“Determination of Accuracy Under Awake Craniotomy Conditions. <i>World Neurosurgery</i> , 2022, 158, e429-e440.	1.3	7
3	White matter microstructure alterations in cortico-striatal networks are associated with parkinsonism in schizophrenia spectrum disorders. <i>European Neuropsychopharmacology</i> , 2021, 50, 64-74.	0.7	6
4	Physical and digital phantoms for validating tractography and assessing artifacts. <i>NeuroImage</i> , 2021, 245, 118704.	4.2	5
5	Tractography reproducibility challenge with empirical data (TraCED): The 2017 ISMRM diffusion study group challenge. <i>Journal of Magnetic Resonance Imaging</i> , 2020, 51, 234-249.	3.4	38
6	Going Beyond Diffusion Tensor Imaging Tractography in Eloquent Glioma Surgeryâ€“High-Resolution Fiber Tractography: Q-Ball or Constrained Spherical Deconvolution?. <i>World Neurosurgery</i> , 2020, 134, e596-e609.	1.3	18
7	Joint Imaging Platform for Federated Clinical Data Analytics. <i>JCO Clinical Cancer Informatics</i> , 2020, 4, 1027-1038.	2.1	39
8	Multiparametric mapping of white matter microstructure in catatonia. <i>Neuropsychopharmacology</i> , 2020, 45, 1750-1757.	5.4	44
9	Combined tract segmentation and orientation mapping for bundle-specific tractography. <i>Medical Image Analysis</i> , 2019, 58, 101559.	11.6	104
10	Limits to anatomical accuracy of diffusion tractography using modern approaches. <i>NeuroImage</i> , 2019, 185, 1-11.	4.2	200
11	Why rankings of biomedical image analysis competitions should be interpreted with care. <i>Nature Communications</i> , 2018, 9, 5217.	12.8	198
12	Anchor-Constrained Plausibility (ACP): A Novel Concept for Assessing Tractography and Reducing False-Positives. <i>Lecture Notes in Computer Science</i> , 2018, , 20-27.	1.3	3
13	TractSeg - Fast and accurate white matter tract segmentation. <i>NeuroImage</i> , 2018, 183, 239-253.	4.2	362
14	Tract Orientation Mapping for Bundle-Specific Tractography. <i>Lecture Notes in Computer Science</i> , 2018, , 36-44.	1.3	22
15	Fiber tractography using machine learning. <i>NeuroImage</i> , 2017, 158, 417-429.	4.2	46
16	The challenge of mapping the human connectome based on diffusion tractography. <i>Nature Communications</i> , 2017, 8, 1349.	12.8	956
17	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
18	OpenHELP (Heidelberg laparoscopy phantom): development of an open-source surgical evaluation and training tool. <i>Surgical Endoscopy and Other Interventional Techniques</i> , 2015, 29, 3338-3347.	2.4	30

#	ARTICLE	IF	CITATIONS
19	Strengths and weaknesses of state of the art fiber tractography pipelines – A comprehensive in-vivo and phantom evaluation study using Tractometer. <i>Medical Image Analysis</i> , 2015, 26, 287-305.	11.6	63
20	A Machine Learning Based Approach to Fiber Tractography Using Classifier Voting. <i>Lecture Notes in Computer Science</i> , 2015, , 45-52.	1.3	20
21	Fiberfox: Facilitating the creation of realistic white matter software phantoms. <i>Magnetic Resonance in Medicine</i> , 2014, 72, 1460-1470.	3.0	91
22	MITK global tractography. <i>Proceedings of SPIE</i> , 2012, , .	0.8	20
23	Comparing measured and simulated wave directions in the left atrium – a workflow for model personalization and validation. <i>Biomedizinische Technik</i> , 2012, 57, 79-87.	0.8	13
24	MITK Diffusion Imaging. <i>Methods of Information in Medicine</i> , 2012, 51, 441-448.	1.2	71