Johannes Vorwerk

List of Publications by Year
in descending order

30 papers	2,544 citations	331259 21 h-index	476904 29 g-index
32 all docs	32 docs citations	32 times ranked	2521 citing authors

#	Article	IF	Citations
1	Lead-DBS v2: Towards a comprehensive pipeline for deep brain stimulation imaging. NeuroImage, 2019, 184, 293-316.	2.1	527
2	Connectivity Predicts deep brain stimulation outcome in <scp>P</scp>arkinson disease. Annals of Neurology, 2017, 82, 67-78.	2.8	514
3	A guideline for head volume conductor modeling in EEG and MEG. NeuroImage, 2014, 100, 590-607.	2.1	236
4	Investigation of tDCS volume conduction effects in a highly realistic head model. Journal of Neural Engineering, 2014, 11, 016002.	1.8	154
5	Optimized programming algorithm for cylindrical and directional deep brain stimulation electrodes. Journal of Neural Engineering, 2018, 15, 026005.	1.8	104
6	The FieldTrip-SimBio pipeline for EEG forward solutions. BioMedical Engineering OnLine, 2018, 17, 37.	1.3	103
7	Influence of the head model on EEG and MEG source connectivity analyses. NeuroImage, 2015, 110, 60-77.	2.1	98
8	Combining EEG and MEG for the Reconstruction of Epileptic Activity Using a Calibrated Realistic Volume Conductor Model. PLoS ONE, 2014, 9, e93154.	1.1	81
9	Anodic stimulation misunderstood: preferential activation of fiber orientations with anodic waveforms in deep brain stimulation. Journal of Neural Engineering, 2019, 16, 016026.	1.8	81
10	Combined EEG/MEG Can Outperform Single Modality EEG or MEG Source Reconstruction in Presurgical Epilepsy Diagnosis. PLoS ONE, 2015, 10, e0118753.	1.1	79
11	Influence of Head Tissue Conductivity Uncertainties on EEG Dipole Reconstruction. Frontiers in Neuroscience, 2019, 13, 531.	1.4	64
12	Evaluation of methodologies for computing the deep brain stimulation volume of tissue activated. Journal of Neural Engineering, 2019, 16, 066024.	1.8	61
13	A comprehensive study on electroencephalography and magnetoencephalography sensitivity to cortical and subcortical sources. Human Brain Mapping, 2021, 42, 978-992.	1.9	61
14	The role of blood vessels in high-resolution volume conductor head modeling of EEG. NeuroImage, 2016, 128, 193-208.	2.1	48
15	A Discontinuous Galerkin Method to Solve the EEG Forward Problem Using the Subtraction Approach. SIAM Journal of Scientific Computing, 2017, 39, B138-B164.	1.3	48
16	Using reciprocity for relating the simulation of transcranial current stimulation to the EEG forward problem. NeuroImage, 2016, 140, 163-173.	2.1	42
17	Comparison of Boundary Element and Finite Element Approaches to the EEG Forward Problem. Biomedizinische Technik, 2012, 57, .	0.9	37
18	The Discontinuous Galerkin Finite Element Method for Solving the MEG and the Combined MEG/EEG Forward Problem. Frontiers in Neuroscience, 2018, 12, 30.	1.4	36

#	Article	IF	Citations
19	A Mixed Finite Element Method to Solve the EEG Forward Problem. IEEE Transactions on Medical Imaging, 2017, 36, 930-941.	5.4	30
20	DUNEuro—A software toolbox for forward modeling in bioelectromagnetism. PLoS ONE, 2021, 16, e0252431.	1.1	25
21	Comparison Study for Whitney (Raviart—Thomas)-Type Source Models in Finite-Element-Method-Based EEG Forward Modeling. IEEE Transactions on Biomedical Engineering, 2015, 62, 2648-2656.	2.5	24
22	Electroencephalography (EEG) forward modeling via H(div) finite element sources with focal interpolation. Physics in Medicine and Biology, 2016, 61, 8502-8520.	1.6	22
23	A retrospective evaluation of automated optimization of deep brain stimulation parameters. Journal of Neural Engineering, 2019, 16, 064002.	1.8	20
24	Interleaved deep brain stimulation for dyskinesia management in Parkinson's disease. Movement Disorders, 2019, 34, 1722-1727.	2.2	18
25	Electrical Stimulation of the Human Cerebral Cortex by Extracranial Muscle Activity: Effect Quantification With Intracranial EEG and FEM Simulations. IEEE Transactions on Biomedical Engineering, 2016, 63, 2552-2563.	2.5	10
26	The multipole approach for EEG forward modeling using the finite element method. NeuroImage, 2019, 201, 116039.	2.1	9
27	The time course of feature integration in plaid patterns revealed by meta- and paracontrast masking. Journal of Vision, 2012, 12, 13-13.	0.1	3
28	Interactive computation and visualization of deep brain stimulation effects using Duality. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2020, 8, 3-14.	1.3	3
29	Validation and Application of Realistic Head Modelling to MEG. Biomedizinische Technik, 2012, 57, .	0.9	1
30	Characterization of the Somatosensory System. Neuromethods, 2021, , 153-169.	0.2	0