Peer-Reviewed Publications and Journal Impact Factor (IF)

1. C. Engwer, **J. Vorwerk**, J. Ludewig, and C.H. Wolters. A discontinuous Galerkin method to solve the EEG forward problem using the subtraction approach. *SIAM Journal on Scientific Computing (SISC)*, accepted for publication.
   Shared first author, IF: 1.9 (2015)

2. **J. Vorwerk**, C. Engwer, S. Pursiainen, and C.H. Wolters. A mixed finite element method to solve the EEG forward problem. *IEEE Transactions on Medical Imaging*, accepted for publication.
   First and corresponding author, IF: 5.5 (2015)

3. S. Pursiainen, **J. Vorwerk**, and C.H. Wolters. Electroencephalography (EEG) forward modeling via $H(\mathrm{div})$ finite element sources with focal interpolation. *Physics in Medicine and Biology*, to appear.
   IF: 2.8 (2015)

4. S. Wagner, F. Lucka, **J. Vorwerk**, C.S. Herrmann, G. Nolte, M. Burger, and C.H. Wolters. Using reciprocity for relating the modeling of transcranial current stimulation and the EEG forward problem. *NeuroImage*, 140:163-173, 2016.
   IF: 3.2 (2014)

5. L.D.F. Fiederer, **J. Vorwerk**, F. Lucka, M. Dannhauer, S. Yang, M. Dümpelmann, A. Schulze-Bonhage, A. Aertsen, O. Speck, C.H. Wolters, and T. Ball. The role of blood vessels in high-resolution volume conductor head modeling of EEG. *NeuroImage*, 128:193-208, 2016.
   IF: 6.4 (2014)

6. Ü. Aydin, **J. Vorwerk**, M. Dümpelmann, P. Küpper, H. Kugel, M. Heers, J. Wellmer, C. Kellinghaus, J. Haueisen, S. Rampp, and C.H. Wolters. Combining EEG/MEG can outperform single modality EEG or MEG source reconstruction in presurgical epilepsy diagnosis. *PLOS ONE*, 10(3):e0118753, 2015.
   IF: 3.2 (2014)

7. Ü. Aydin, **J. Vorwerk**, P. Küpper, M. Heers, H. Kugel, A. Galka, L. Hamid, J. Wellmer, C. Kellinghaus, S. Rampp, and C.H. Wolters. Combining EEG and MEG for the reconstruction of epileptic activity using a calibrated realistic volume conductor model. *PLOS ONE*,

10(3):e0118753, 2015.
IF: 3.2 (2014)

8. J.-H. Cho, **J. Vorwerk**, C.H. Wolters, and T.R. Knösche. Influence of the head model on EEG and MEG source connectivity analyses. *NeuroImage*, 110:60-77, 2015.
IF: 6.4 (2014)

9. **J. Vorwerk**, J.-H. Cho, S. Rampp, H. Hamer, T.R. Knösche, and C.H. Wolters. A guideline for head volume conductor modeling in EEG and MEG. *NeuroImage*, 100:590-607, 2014.
First and corresponding author, IF: 6.4 (2014)

10. S. Wagner, S.M. Rampersad, Ü. Aydin, **J. Vorwerk**, T.F. Oostendorp, T. Neuling, C.S. Herrmann, D.F. Stegeman, and C.H. Wolters. Investigation of tDCS volume conduction effects in a highly realistic head model. *Journal of Neural Engineering*, 11:016002(14pp), 2014.
IF: 3.3 (2014)

11. M. Bruchmann, P. Hintze, and **J. Vorwerk**. The time course of feature integration in plaid patterns revealed by meta- and paracontrast masking. *Journal of Vision*, 12(13), 2012.
IF: 2.5 (2012)

12. **J. Vorwerk**, M. Clerc, M. Burger, and C.H. Wolters. Comparison of boundary element and finite element approaches to the EEG forward problem. *Biomedical Engineering/Biomedizinische Technik*, 57(Suppl. 1), 2012.
First and corresponding author, IF: 1.2 (2012)