

## **Verzeichnis der Originalpublikationen Prof. Dr.-Ing. habil. Jens Haueisen**

### **2020**

1. Hunold A, Machts R, Haueisen J: Head phantoms for bioelectromagnetic applications: a material study. *BioMedical Engineering OnLine*, 19:87, 2020
2. Schweitzer D, Haueisen J, Bauer JL, Hammer M, Klemm M: Comparison of algorithms to suppress artifacts from the natural lens in fluorescence lifetime imaging ophthalmoscopy (FLIO). *Biomedical Optics Express*, 11(10), 5586-5602, 2020
3. Hunold A, Ortega D, Schellhorn K, Haueisen J: Novel flexible cap for application of transcranial electrical stimulation: a usability study. *BioMedical Engineering OnLine*, 19: 50, 2020
4. Naskovska K, Lau S, Korobkov AA, Haueisen J, Haardt M: Coupled CP Decomposition of Simultaneous MEG-EEG Signals for Differentiating Oscillators During Photic Driving. *Frontiers in Neuroscience*, 14:261, 2020
5. Hömmen P, Mäkinen AJ, Hunold A, Machts R, Haueisen J, Zevenhoven KCJ, Ilmoniemi RJ, Körber R: Evaluating the Performance of Ultra-Low-Field MRI for In-vivo 3D Current Density Imaging of the Human Head. *Frontiers in Physics*, 8:105, 2020
6. Rodrigues MS, Fiedler P, Kuchler N, Domingues RP, Lopes C, Borges J, Haueisen J, Vaz F: Dry Electrodes for Surface Electromyography based on Architected Titanium Thin Films. *Materials*, 13:2135, 2020
7. Spyrides Boabaid Pimentel Goncalves R, Haueisen J, Luiz Brum Marques J: Inductive Temperature Measurement: A New Sensor Improvement for Industrial Applications. *Review of Scientific Instruments*, 91:046101, 2020
8. Heinemann D, Dutz S, Knabner S, Haueisen J, Baumgarten D: Camera Calibration and Orientation for PCB Jet Printing Inspection. *SN Applied Sciences*, 2:322, 2020
9. Sabel BA, Thut G, Haueisen J, Henrich-Noack P, Herrmann CS, Hunold A, Kammer T, Matteo B, Sergeeva EG, Waleszczyk W, Antal A: Vision modulation, plasticity and restoration using non-invasive brain stimulation – a review. *Clinical Neurophysiology*, 131(4):887-911, 2020
10. Dölker E-M, Lau S, Gröllich D, Haase E, Krzywinski S, Schmauder M, Haueisen J: Techniken zur Bestimmung von Parametern für die elektrische Personenwarnung. *ASU*, 10, 2020.

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12. Antonakakis M, Schrader S, Wollbrink A, Oostenveld R, Rampp S, Haueisen J, Wolters CH: The effect of stimulation type, head modeling and combined EEG and MEG on the source reconstruction of the somatosensory P20/N20 component. *Human Brain Mapping*, 40(17):5011-5028, 2019
13. Machts R, Hunold A, Drebenstedt C, Rock M, Leu C, Haueisen J: Measurement and analysis of partial lightning currents in a head phantom. *PLOS ONE*, PLoS ONE 14(9): e0223133, 2019

14. Graichen U, Eichardt R, Haueisen J: SpharaPy: A Python toolbox for spatial harmonic analysis of non-uniformly sampled data. *SoftwareX*, 10:100289, 2019
15. Freitag S, Hunold A, Klemm M, Klee S, Link D, Nagel E, Haueisen J: Pulsed Electrical Stimulation of the Human Eye Enhances Retinal Vessel Reaction to Flickering Light. *Frontiers in Human Neuroscience*, 13:371, 2019
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17. Petković B, Dölker EM, Schmidt R, Toepfer H, Haueisen J: Lorentz force surface integration method: calculation of Lorentz force by means of surface integrals. *IEEE Transaction on Magnetics*, 55(12):7205307, 10.1109/TMAG.2019.2944799, 2019
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21. Kunze T, Haueisen J, Knösche TR: Emergence of Cognitive Priming and Structure-building from the Hierarchical Interaction of Canonical Microcircuit Models. *Biological Cybernetics*, 113(3):273-291, 2019
22. Eichardt R, Strohmeier D, Hunold A, Haueisen J, Oelsner G, Schmidt CB, Schultze V, Stolz R, Graichen U: Sensitivity studies and optimization of arrangements of optically pumped magnetometers in simulated magnetoencephalography. *COMPEL: The International Journal for Computation and Mathematics in Electrical and Electronic Engineering*, 38(3):953-964, 2019
23. Dölker EM, Schmidt R, Brauer H, Haueisen J: Velocity-dependent Lorentz force evaluation: A simulation study. *IEEE Transactions on Magnetics*, 55(6): 6201104, 2019
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