**Artinis NIRS Literature List**

*There are a vast number of publications on Near Infrared Spectroscopy. Here we present some of the general literature on NIRS, on specific applications and literature utilizing the OxyMon, PortaMon or PortaLite system.*

**General, Introductory and Reviews**


Macnab, A, Shadgan B. Biomedical applications of wireless continuous wave near infrared spectroscopy. *Biomedical Spectroscopy and Imaging* 1 (2012) 205-222


**Instrumentation and Algorithms, Comparison/Description**


Haigh SM, Cooper NR, Wilkins AJ. Cortical excitability and the **shape of the haemodynamic response**. *Neuroimage*. 2015 Feb 24

Hua Li, Sungho Tak, Jong Chul Ye. **Lipschitz-Killing curvature** based expected Euler characteristics for p-value correction in fNIRS. *Neurosci Methods*. 2012 Feb 15;204(1):61-7.


PortaMon /PortaLite wireless


de Marées M, Markus Hein, Florence Correa, Tobias Alt, Raphael Jung, Heiner Schwartz, Joachim Mester. Predicting the time to exhaustion on different altitude levels by the tissue saturation index. Science and Skiing 2013.


Brain


Also see: http://www.jove.com/details.php?id=2670


Van Beek AHEA, Sijbesma JC, Jansen RWMM, Olde Rikkert MGM, Claassen JAH. Cortical oxygen supply during postural hypotension is further decreased in Alzheimer’s disease, but unrelated to cholinesterase-inhibitor use. *Journal of Alzheimer’s Disease*. 2010; 21:519-526.


**Functional NIRS**


Heger D, Herff C, Putze F, Schultz T. Towards **Biometric Person Identification** using fNIRS. *International BCI Meeting 2013, Asilomar, USA*


Herff C, Heger D, Putze F, Henrichj, Fortmann O. Classification of mental tasks in the prefrontal cortex using fNIRS. *Clinical Neurophysiology, 2013*


Khan MJ, Hong KS, Naseer N, Bhutta MR. *Multi-Decision Detection Using EEG-NIRS Based Hybrid Brain-Computer Interface (BCI).* *OHBM 2014, Berlin.*


Koenraadt KLM, Duyssens J, Smeenk M, Keijers NLW. Multi-channel NIRS of the primary motor cortex to discriminate hand from foot activity. *J Neural Eng. 9.046010*

Koenraadt KL, Munneke MA, Duyssens J, Keijers NL. **TMS:** A navigator for NIRS of the *primary motor cortex?* *J Neurosci Methods, 2011 Jul 30.*


Sood M. Investigating online effects of transcranial direct current stimulation from NIRS-EEG joint-imaging using Kalman Filter based online parameter estimation of an autoregressive model. Thesis Hyderabad university, India.


Brain and muscle


Effects of acute hypoxia on cerebral and muscle oxygenation during incremental exercise. [J Appl Physiol. 2007;103(1):177-183]


Periphery


Christensen C, Fristrup B, Larsen A, Petersen I. Local oxygenation in m. trapezius during computer mouse work in presence of DOMS. [Bachelor project - Department of health science and technology, Aalborg University, Denmark]


Glaister M, Pattison JR, Muniz-Pumares D, Patterson, SD, Foley P. Effects of dietary nitrate, caffeine, and their combination on 20 km cycling time-trial performance. *Journal of Strength & Conditioning Research.* June 24, 2014


Wang JS, Lee MY, Lien HY, Weng TP. Hypoxic exercise training improves cardiac/muscular hemodynamics and is associated with modulated circulating progenitor cells in sedentary men. *Int J Cardiol* nov 12 2013.


Zamani P, Rawat D, Shiva Askforinfo@artinis.com +31 481 350 980 +31 842 105 702 +31 842 105 702 e f t. Einsteinweg 17 6662 PW Elst The Netherlands


Urology


Shadgan B, Macnab AJ. Using near infrared spectroscopy (NIRS) technology in a clinical setting to address an important issue. *J Trauma* 2008; 65(5):1205.


Stothers L, Shadgan B, Macnab AJ. Near-infrared spectroscopy of the detrusor during urodynamics with simultaneous ultrasound measurements of bladder dimensions and position. *Biomedical Spectroscopy and Imaging*. 

---

t  +31 481 350 980  
f  +31 842 105 702  
e  askforinfo@artinis.com  
Einsteinweg 17  
6662 PW Elst  
The Netherlands