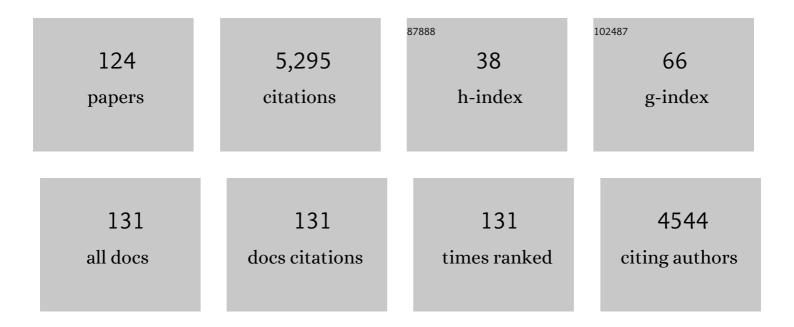
Sampsa Vanhatalo

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Why monitor the neonatal brainâ \in "that is the important question. Pediatric Research, 2023, 93, 19-21. | 2.3 | 6 |
| 2 | Phase-Based Cortical Synchrony Is Affected by Prematurity. Cerebral Cortex, 2022, 32, 2265-2276. | 2.9 | 7 |
| 3 | Early development of sleep and brain functional connectivity in term-born and preterm infants. Pediatric Research, 2022, 91, 771-786. | 2.3 | 21 |
| 4 | Impact of In Utero Exposure to Antiepileptic Drugs on Neonatal Brain Function. Cerebral Cortex, 2022, 32, 2385-2397. | 2.9 | 7 |
| 5 | Profile of minor neurological findings after perinatal asphyxia. Acta Paediatrica, International Journal of Paediatrics, 2022, 111, 291-299. | 1.5 | 9 |
| 6 | Visual field defects after vigabatrin treatment during infancy: retrospective populationâ€based study. Developmental Medicine and Child Neurology, 2022, 64, 641-648. | 2.1 | 6 |
| 7 | Cortical Cross-Frequency Coupling Is Affected by in utero Exposure to Antidepressant Medication. Frontiers in Neuroscience, 2022, 16, 803708. | 2.8 | 3 |
| 8 | Validating an SVM-based neonatal seizure detection algorithm for generalizability, non-inferiority and clinical efficacy. Computers in Biology and Medicine, 2022, 145, 105399. | 7.0 | 12 |
| 9 | Early brain activity: Translations between bedside and laboratory. Progress in Neurobiology, 2022, 213, 102268. | 5.7 | 13 |
| 10 | Asymmetry in sleep spindles and motor outcome in infants with unilateral brain injury. Developmental Medicine and Child Neurology, 2022, , . | 2.1 | 2 |
| 11 | Intelligent wearable allows out-of-the-lab tracking of developing motor abilities in infants. Communications Medicine, 2022, 2, . | 4.2 | 13 |
| 12 | Towards multimodal brain monitoring in asphyxiated newborns with amplitude-integrated EEG and simultaneous somatosensory evoked potentials. Early Human Development, 2021, 153, 105287. | 1.8 | 6 |
| 13 | The ILAE classification of seizures and the epilepsies: Modification for seizures in the neonate. Position paper by the ILAE Task Force on Neonatal Seizures. Epilepsia, 2021, 62, 615-628. | 5.1 | 158 |
| 14 | Building an Open Source Classifier for the Neonatal EEG Background: A Systematic Feature-Based Approach From Expert Scoring to Clinical Visualization. Frontiers in Human Neuroscience, 2021, 15, 675154. | 2.0 | 12 |
| 15 | An openly available wearable, a diaper cover, monitors infant's respiration and position during rest and sleep. Acta Paediatrica, International Journal of Paediatrics, 2021, 110, 2766-2771. | 1.5 | 6 |
| 16 | Detrended fluctuation analysis in the presurgical evaluation of parietal lobe epilepsy patients. Clinical Neurophysiology, 2021, 132, 1515-1525. | 1.5 | 11 |
| 17 | Characterization of the Functional Dynamics in the Neonatal Brain during REM and NREM Sleep States by means of Microstate Analysis. Brain Topography, 2021, 34, 555-567. | 1.8 | 14 |
| 18 | Automated detection of artefacts in neonatal EEG with residual neural networks. Computer Methods and Programs in Biomedicine, 2021, 208, 106194. | 4.7 | 13 |

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|----|--|------|-----------|
| 19 | Recording activity in proximal muscle networks with surface EMG in assessing infant motor development. Clinical Neurophysiology, 2021, 132, 2840-2850. | 1.5 | 2 |
| 20 | Cortical responses to tactile stimuli in preterm infants. European Journal of Neuroscience, 2020, 51, 1059-1073. | 2.6 | 18 |
| 21 | Use of complex visual stimuli allows controlled recruitment of cortical networks in infants. Clinical Neurophysiology, 2020, 131, 2032-2040. | 1.5 | 4 |
| 22 | Reliability and accuracy of EEG interpretation for estimating age in preterm infants. Annals of Clinical and Translational Neurology, 2020, 7, 1564-1573. | 3.7 | 11 |
| 23 | Automated cotâ€side tracking of functional brain age in preterm infants. Annals of Clinical and Translational Neurology, 2020, 7, 891-902. | 3.7 | 33 |
| 24 | Neonatal neuroimaging and neurophysiology predict infantile onset epilepsy after perinatal hypoxic ischemic encephalopathy. Seizure: the Journal of the British Epilepsy Association, 2020, 80, 249-256. | 2.0 | 12 |
| 25 | Automatic Posture and Movement Tracking of Infants with Wearable Movement Sensors. Scientific Reports, 2020, 10, 169. | 3.3 | 69 |
| 26 | Measuring Cot-Side the Effects of Parenteral Nutrition on Preterm Cortical Function. Frontiers in Human Neuroscience, 2020, 14, 69. | 2.0 | 2 |
| 27 | An Open Source Classifier for Bed Mattress Signal in Infant Sleep Monitoring. Frontiers in Neuroscience, 2020, 14, 602852. | 2.8 | 3 |
| 28 | Time-Varying EEG Correlations Improve Automated Neonatal Seizure Detection. International Journal of Neural Systems, 2019, 29, 1850030. | 5.2 | 56 |
| 29 | Effect of allopurinol in addition to hypothermia treatment in neonates for hypoxic-ischemic brain injury on neurocognitive outcome (ALBINO): study protocol of a blinded randomized placebo-controlled parallel group multicenter trial for superiority (phase III). BMC Pediatrics, 2019, 19, 210. | 1.7 | 40 |
| 30 | Prenatal exposure to antiepileptic drugs and early processing of emotionally relevant sounds. Epilepsy and Behavior, 2019, 100, 106503. | 1.7 | 1 |
| 31 | Large-scale brain modes reorganize between infant sleep states and carry prognostic information for preterms. Nature Communications, 2019, 10, 2619. | 12.8 | 65 |
| 32 | Automated pose estimation captures key aspects of General Movements at eight to 17Âweeks from conventional videos. Acta Paediatrica, International Journal of Paediatrics, 2019, 108, 1817-1824. | 1.5 | 32 |
| 33 | Bedside neurophysiological tests can identify neonates with stroke leading to cerebral palsy. Clinical Neurophysiology, 2019, 130, 759-766. | 1.5 | 15 |
| 34 | Neonatal seizures: Is there a relationship between ictal electroclinical features and etiology? A critical appraisal based on a systematic literature review. Epilepsia Open, 2019, 4, 10-29. | 2.4 | 42 |
| 35 | Preterm Birth Changes Networks of Newborn Cortical Activity. Cerebral Cortex, 2019, 29, 814-826. | 2.9 | 41 |
| 36 | Designing a trial for neonatal seizure treatment. Seminars in Fetal and Neonatal Medicine, 2018, 23, 213-217. | 2.3 | 10 |

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|----|--|-----|-----------|
| 37 | Playing music to preemies: boosting of soothing the brain?. Acta Paediatrica, International Journal of Paediatrics, 2018, 107, 549-550. | 1.5 | 2 |
| 38 | The effect of reducing EEG electrode number on the visual interpretation of the human expert for neonatal seizure detection. Clinical Neurophysiology, 2018, 129, 265-270. | 1.5 | 23 |
| 39 | Evaluation of SEPs in asphyxiated newborns using a 4-electrode aEEG brain monitoring set-up. Clinical Neurophysiology Practice, 2018, 3, 122-126. | 1.4 | 10 |
| 40 | Newborn Brain Function Is Affected by Fetal Exposure to Maternal Serotonin Reuptake Inhibitors. Cerebral Cortex, 2017, 27, bhw153. | 2.9 | 30 |
| 41 | Neonatal somatosensory evoked potentials persist during hypothermia. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 912-917. | 1.5 | 16 |
| 42 | Corticokinematic coherence as a new marker for somatosensory afference in newborns. Clinical Neurophysiology, 2017, 128, 647-655. | 1.5 | 19 |
| 43 | Detecting bursts in the EEG of very and extremely premature infants using a multi-feature approach. Medical Engineering and Physics, 2017, 45, 42-50. | 1.7 | 23 |
| 44 | Evoked potentials recorded during routine EEG predict outcome after perinatal asphyxia. Clinical Neurophysiology, 2017, 128, 1337-1343. | 1.5 | 23 |
| 45 | Automated classification of neonatal sleep states using EEG. Clinical Neurophysiology, 2017, 128, 1100-1108. | 1.5 | 69 |
| 46 | Use of eye tracking improves the detection of evoked responses to complex visual stimuli during EEG in infants. Clinical Neurophysiology Practice, 2017, 2, 81-90. | 1.4 | 4 |
| 47 | Evidence for spared attention to faces in 7-month-old infants after prenatal exposure to antiepileptic drugs. Epilepsy and Behavior, 2016, 64, 62-68. | 1.7 | 17 |
| 48 | Testing brains with burst suppressions. Clinical Neurophysiology, 2016, 127, 2919-2920. | 1.5 | 0 |
| 49 | Effects of prenatal antiepileptic drug exposure on newborn brain activity. Epilepsia, 2016, 57, 252-262. | 5.1 | 22 |
| 50 | Functional Brain Connectivity Develops Rapidly Around Term Age and Changes Between Vigilance States in the Human Newborn. Cerebral Cortex, 2016, 26, 4540-4550. | 2.9 | 49 |
| 51 | Analysis of infant cortical synchrony is constrained by the number of recording electrodes and the recording montage. Clinical Neurophysiology, 2016, 127, 310-323. | 1.5 | 27 |
| 52 | Treatment Trials for Neonatal Seizures: The Effect of Design on Sample Size. PLoS ONE, 2016, 11, e0165693. | 2.5 | 10 |
| 53 | Interobserver agreement for neonatal seizure detection using multichannel <scp>EEG</scp> . Annals of Clinical and Translational Neurology, 2015, 2, 1002-1011. | 3.7 | 48 |
| 54 | Early Detection of Preterm Intraventricular Hemorrhage From Clinical Electroencephalography. Critical Care Medicine, 2015, 43, 2219-2227. | 0.9 | 33 |

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|----|---|------|-----------|
| 55 | Cumulative deviance scores can be used as an alternative to the Hammersmith Neonatal Neurological Examination in scientific research. Acta Paediatrica, International Journal of Paediatrics, 2015, 104, e414-e416. | 1.5 | 0 |
| 56 | Objective differentiation of neonatal EEG background grades using detrended fluctuation analysis. Frontiers in Human Neuroscience, 2015, 9, 189. | 2.0 | 29 |
| 57 | Cortical burst dynamics predict clinical outcome early in extremely preterm infants. Brain, 2015, 138, 2206-2218. | 7.6 | 90 |
| 58 | Evaluation of somatosensory cortical processing in extremely preterm infants at term with MEG and EEG. Clinical Neurophysiology, 2015, 126, 275-283. | 1.5 | 35 |
| 59 | Early Brain Activity Relates to Subsequent Brain Growth in Premature Infants. Cerebral Cortex, 2015, 25, 3014-3024. | 2.9 | 108 |
| 60 | Bumetanide for the treatment of seizures in newborn babies with hypoxic ischaemic encephalopathy (NEMO): an open-label, dose finding, and feasibility phase 1/2 trial. Lancet Neurology, The, 2015, 14, 469-477. | 10.2 | 208 |
| 61 | Visual Fixation in Human Newborns Correlates with Extensive White Matter Networks and Predicts Long-Term Neurocognitive Development. Journal of Neuroscience, 2015, 35, 4824-4829. | 3.6 | 35 |
| 62 | Structural damage in early preterm brain changes the electric resting state networks. NeuroImage, 2015, 120, 266-273. | 4.2 | 23 |
| 63 | Interhemispheric synchrony in the neonatal EEG revisited: activation synchrony index as a promising classifier. Frontiers in Human Neuroscience, 2014, 8, 1030. | 2.0 | 27 |
| 64 | Critical role for resource constraints in neural models. Frontiers in Systems Neuroscience, 2014, 8, 154. | 2.5 | 24 |
| 65 | Novel features of early burst suppression predict outcome after birth asphyxia. Annals of Clinical and Translational Neurology, 2014, 1, 209-214. | 3.7 | 31 |
| 66 | Functional Bimodality in the Brain Networks of Preterm and Term Human Newborns. Cerebral Cortex, 2014, 24, 2657-2668. | 2.9 | 76 |
| 67 | Scale-Free Bursting in Human Cortex following Hypoxia at Birth. Journal of Neuroscience, 2014, 34, 6557-6572. | 3.6 | 53 |
| 68 | Neonatal EEG at scalp is focal and implies high skull conductivity in realistic neonatal head models. NeuroImage, 2014, 96, 73-80. | 4.2 | 53 |
| 69 | Safety of EEG–fMRI recordings in newborn infants at 3T: A study using a baby-size phantom. Clinical Neurophysiology, 2014, 125, 941-946. | 1.5 | 11 |
| 70 | Measuring Time-Varying Information Flow in Scalp EEG Signals: Orthogonalized Partial Directed Coherence. IEEE Transactions on Biomedical Engineering, 2014, 61, 680-693. | 4.2 | 70 |
| 71 | Drug effects on endogenous brain activity in preterm babies. Brain and Development, 2014, 36, 116-123. | 1.1 | 38 |
| 72 | Dynamic Eye Tracking Based Metrics for Infant Gaze Patterns in the Face-Distractor Competition Paradigm. PLoS ONE, 2014, 9, e97299. | 2.5 | 16 |

Sampsa Vanhatalo

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Monitoring neonatal seizures. Seminars in Fetal and Neonatal Medicine, 2013, 18, 202-208. | 2.3 | 94 |
| 74 | Development of a novel robust measure for interhemispheric synchrony in the neonatal EEC: Activation Synchrony Index (ASI). NeuroImage, 2013, 69, 256-266. | 4.2 | 28 |
| 75 | Spatial patterning of the neonatal EEG suggests a need for a high number of electrodes. NeuroImage, 2013, 68, 229-235. | 4.2 | 64 |
| 76 | Sleep wake cycling in early preterm infants: Comparison of polysomnographic recordings with a novel EEG-based index. Clinical Neurophysiology, 2013, 124, 1807-1814. | 1.5 | 41 |
| 77 | Cortical somatosensory processing measured by magnetoencephalography predicts neurodevelopment in extremely low-gestational-age infants. Pediatric Research, 2013, 73, 763-771. | 2.3 | 36 |
| 78 | Generalized Mean Phase Coherence for asynchrony abnormality detection in multichannel newborn EEG. , 2012, , . | | 1 |
| 79 | Preterm EEG: A Multimodal Neurophysiological Protocol. Journal of Visualized Experiments, 2012, , . | 0.3 | 15 |
| 80 | Phase synchrony in the early preterm EEG: Development of methods for estimating synchrony in both oscillations and events. NeuroImage, 2012, 60, 1562-1573. | 4.2 | 41 |
| 81 | Five percent CO2 is a potent, fast-acting inhalation anticonvulsant. Epilepsia, 2011, 52, 104-114. | 5.1 | 92 |
| 82 | Respiratory alkalosis in children with febrile seizures. Epilepsia, 2011, 52, 1949-1955. | 5.1 | 59 |
| 83 | Brain alkalosis causes birth asphyxia seizures, suggesting therapeutic strategy. Annals of Neurology, 2011, 69, 493-500. | 5.3 | 47 |
| 84 | Emergence of spontaneous and evoked electroencephalographic activity in the human brain. , 2010, , 229-244. | | 9 |
| 85 | Optimization of an NLEO-based algorithm for automated detection of spontaneous activity transients in early preterm EEG. Physiological Measurement, 2010, 31, N85-N93. | 2.1 | 45 |
| 86 | Detection of â€~EEG bursts' in the early preterm EEG: Visual vs. automated detection. Clinical Neurophysiology, 2010, 121, 1015-1022. | 1.5 | 65 |
| 87 | An Easy and Practical Method for Routine, Bedside Testing of Somatosensory Systems in Extremely Low Birth Weight Infants. Pediatric Research, 2009, 66, 710-713. | 2.3 | 33 |
| 88 | Neurobiological and physiological mechanisms of fever-related epileptiform syndromes. Brain and Development, 2009, 31, 378-382. | 1.1 | 26 |
| 89 | Bumetanide for neonatal seizures: Based on evidence or enthusiasm?. Epilepsia, 2009, 50, 1292-1293. | 5.1 | 34 |
| 90 | High-fidelity recording of brain activity in the extremely preterm babies: Feasibility study in the incubator. Clinical Neurophysiology, 2008, 119, 439-445. | 1.5 | 39 |

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|-----|--|------|-----------|
| 91 | Electroencephalographic Response to Procedural Pain in Healthy Term Newborn Infants. Pediatric Research, 2008, 64, 429-434. | 2.3 | 25 |
| 92 | Ictal localization by source analysis of infraslow activity in DC-coupled scalp EEG recordings. NeuroImage, 2007, 35, 583-597. | 4.2 | 45 |
| 93 | Fine spatiotemporal structure of phase in human intracranial EEG. Clinical Neurophysiology, 2006, 117, 1228-1243. | 1.5 | 99 |
| 94 | Development of neonatal EEG activity: From phenomenology to physiology. Seminars in Fetal and Neonatal Medicine, 2006, 11, 471-478. | 2.3 | 265 |
| 95 | Neonatal SEP – Back to bedside with basic science. Seminars in Fetal and Neonatal Medicine, 2006, 11, 464-470. | 2.3 | 66 |
| 96 | Experimental febrile seizures are precipitated by a hyperthermia-induced respiratory alkalosis. Nature Medicine, 2006, 12, 817-823. | 30.7 | 257 |
| 97 | Dynamics of human neocortex that optimizes its stability and flexibility. International Journal of Intelligent Systems, 2006, 21, 881-901. | 5.7 | 37 |
| 98 | Slow endogenous activity transients and developmental expression of K+-Clâ^'cotransporter 2 in the immature human cortex. European Journal of Neuroscience, 2005, 22, 2799-2804. | 2.6 | 202 |
| 99 | Full-Band EEG (FbEEG): A New Standard for Clinical Electroencephalography. Clinical EEG and Neuroscience, 2005, 36, 311-317. | 1.7 | 34 |
| 100 | Full-band EEG (FbEEG): an emerging standard in electroencephalography. Clinical Neurophysiology, 2005, 116, 1-8. | 1.5 | 146 |
| 101 | Nonneuronal Origin of CO2-Related DC EEG Shifts: An In Vivo Study in the Cat. Journal of Neurophysiology, 2004, 92, 1011-1022. | 1.8 | 44 |
| 102 | Does Hyperventilation Elicit Epileptic Seizures?. Epilepsia, 2004, 45, 618-620. | 5.1 | 63 |
| 103 | Vagal Nerve Stimulation Induces Intermittent Hypocapnia. Epilepsia, 2003, 44, 1588-1591. | 5.1 | 26 |
| 104 | Spatial spectra of scalp EEG and EMG from awake humans. Clinical Neurophysiology, 2003, 114, 1053-1068. | 1.5 | 322 |
| 105 | Millivolt-Scale DC Shifts in the Human Scalp EEG: Evidence for a Nonneuronal Generator. Journal of Neurophysiology, 2003, 89, 2208-2214. | 1.8 | 124 |
| 106 | DC-EEG discloses prominent, very slow activity patterns during sleep in preterm infants. Clinical Neurophysiology, 2002, 113, 1822-1825. | 1.5 | 100 |
| 107 | Visual Field Constriction in 91 Finnish Children Treated withâ€fVigabatrin. Epilepsia, 2002, 43, 748-756. | 5.1 | 100 |
| 108 | Nitric oxide metabolites, nitrates and nitrites in the cerebrospinal fluid in children with west syndrome. Epilepsy Research, 2001, 46, 3-13. | 1.6 | 22 |

Sampsa Vanhatalo

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Care should be taken in interpretation of visual field tests in children. Annals of Neurology, 2001, 49, 277-277. | 5.3 | 1 |
| 110 | Comparison of the Distributions of Neuropeptide Y-, Tyrosine Hydroxylase-, and Tryptophan Hydroxylase-Expressing Neurons in the Hypothalamic Arcuate Nucleus. Nutritional Neuroscience, 2000, 3, 11-17. | 3.1 | 0 |
| 111 | Neurturin is a neurotrophic factor for penile parasympathetic neurons in adult rat. , 2000, 43, 198-205. | | 63 |
| 112 | Posttraumatic tremor and Arnold Chiari malformation: No sign of compression, but cure after surgical decompression. Movement Disorders, 2000, 15, 581-583. | 3.9 | 6 |
| 113 | Markedly Elevated Nitrate/Nitrite Levels in the Cerebrospinal Fluid of Children with Progressive Encephalopathy with Edema, Hypsarrhythmia, and Optic Atrophy (PEHO Syndrome). Epilepsia, 2000, 41, 705-708. | 5.1 | 25 |
| 114 | Nitric oxide synthase immunoreactivity in the rat hippocampus after status epilepticus induced by perforant pathway stimulation. Brain Research, 2000, 871, 303-310. | 2.2 | 20 |
| 115 | Glial cell line-derived neurotrophic factor is expressed in penis of adult rat and retrogradely transported in penile parasympathetic and sensory nerves. Cell and Tissue Research, 2000, 302, 321-329. | 2.9 | 38 |
| 116 | Fetal pain?. Brain and Development, 2000, 22, 145-150. | 1.1 | 42 |
| 117 | Intrahypothalamic Serotonergic Neurons. Nutritional Neuroscience, 1999, 2, 403-412. | 3.1 | 0 |
| 118 | Serotonin is not synthesized, but specifically transported, in the neurons of the hypothalamic dorsomedial nucleus. European Journal of Neuroscience, 1998, 10, 1930-1935. | 2.6 | 15 |
| 119 | Axonal transport of nitric oxide synthase in autonomic nerves. Journal of the Autonomic Nervous System, 1996, 56, 207-214. | 1.9 | 23 |
| 120 | Nitric oxide synthase in the autonomic and sensory ganglia innervating the submandibular salivary gland. , 1996, 35, 32-43. | | 24 |
| 121 | Colocalization of dopamine and serotonin in the rat pituitary gland and in the nuclei innervating it. Brain Research, 1995, 669, 275-284. | 2.2 | 32 |
| 122 | Co-localization of NADPH diaphorase reactivity and vasoactive intestinal polypeptide in human colon. Journal of the Autonomic Nervous System, 1995, 54, 177-183. | 1.9 | 21 |
| 123 | Nitric oxide synthase in the hypothalamo-pituitary pathways. Journal of Chemical Neuroanatomy, 1995, 8, 165-173. | 2.1 | 60 |
| 124 | NADPH-diaphorase activity and its colocalization with transmitters and neuropeptides in the postganglionic neurons of the rat superior cervical ganglion. Brain Research, 1994, 652, 107-112. | 2.2 | 31 |