# Tobias Nef

## List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/6257223/publications.pdf

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| 123 | 4,617 | 186265 | 128289 |
|---|---|---|---|
| papers | citations | 28 h-index | 60 g-index |

| 134 | 134 | 134 | 4538 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A Sensor-Driven Visit Detection System in Older Adultsâ€™ Homes: Towards Digital Late-Life Depression Marker Extraction. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1560-1569. | 6.3 | 8 |
| 2 | Wearables in the home-based assessment of abnormal movements in Parkinsonâ€™s disease: a systematic review of the literature. Journal of Neurology, 2022, 269, 100-110. | 3.6 | 32 |
| 3 | Influence of noise manipulation on retention in a simulated ICU ward round: an experimental pilot study. Intensive Care Medicine Experimental, 2022, 10, 3. | 1.9 | 2 |
| 4 | Visual Neglect after PICA Strokeâ€”A Case Study. Brain Sciences, 2022, 12, 290. | 2.3 | 5 |
| 5 | An Instrumented Apartment to Monitor Human Behavior: A Pilot Case Study in the NeuroTec Loft. Sensors, 2022, 22, 1657. | 3.8 | 3 |
| 6 | Usability evaluation of an interactive leg press training robot for children with neuromuscular impairments. Technology and Health Care, 2022, 30, 1183-1197. | 1.2 | 1 |
| 7 | Eigenbehaviour as an Indicator of Cognitive Abilities. Sensors, 2022, 22, 2769. | 3.8 | 1 |
| 8 | Effects of Virtual Realityâ€“Based Multimodal Audio-Tactile Cueing in Patients With Spatial Attention Deficits: Pilot Usability Study. JMIR Serious Games, 2022, 10, e34884. | 3.1 | 3 |
| 9 | Tablet app-based dexterity-training in patients with Parkinson's disease: Pilot feasibility study. Annals of Physical and Rehabilitation Medicine, 2021, 64, 101419. | 2.3 | 3 |
| 10 | Case Report: Ambient Sensor Signals as Digital Biomarkers for Early Signs of Heart Failure Decompensation. Frontiers in Cardiovascular Medicine, 2021, 8, 617682. | 2.4 | 9 |
| 11 | Video-Oculography During Free Visual Exploration to Detect Right Spatial Neglect in Left-Hemispheric Stroke Patients With Aphasia: A Feasibility Study. Frontiers in Neuroscience, 2021, 15, 640049. | 2.8 | 4 |
| 12 | Application of Eye Tracking in Puzzle Games for Adjunct Cognitive Markers: Pilot Observational Study in Older Adults. JMIR Serious Games, 2021, 9, e24151. | 3.1 | 6 |
| 13 | Virtual reality stimulation to reduce the incidence of delirium in critically ill patients: study protocol for a randomized clinical trial. Trials, 2021, 22, 174. | 1.6 | 9 |
| 14 | Contactless Sleep Monitoring for Early Detection of Health Deteriorations in Community-Dwelling Older Adults: Exploratory Study. JMIR MHealth and UHealth, 2021, 9, e24666. | 3.7 | 21 |
| 15 | Development of a Search Task Using Immersive Virtual Reality: Proof-of-Concept Study. JMIR Serious Games, 2021, 9, e29182. | 3.1 | 16 |
| 16 | NeuroTec Sitem-Insel Bern: Closing the Last Mile in Neurology. Clinical and Translational Neuroscience, 2021, 5, 13. | 0.9 | 10 |
| 17 | Congruency of Information Rather Than Body Ownership Enhances Motor Performance in Highly Embodied Virtual Reality. Frontiers in Neuroscience, 2021, 15, 678909. | 2.8 | 10 |
| 18 | Contactless Gait Assessment in Home-like Environments. Sensors, 2021, 21, 6205. | 3.8 | 3 |

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|---|---|---|---|
| 19 | Anterior insula and inferior frontal gyrus: where ventral and dorsal visual attention systems meet. Brain Communications, 2021, 3, fcaa220. | 3.3 | 23 |
| 20 | Advances in Sensor Monitoring Effectiveness and Applicability: A Systematic Review and Update. Gerontologist, The, 2020, 60, e299-e308. | 3.9 | 6 |
| 21 | Potential of Ambient Sensor Systems for Early Detection of Health Problems in Older Adults. Frontiers in Cardiovascular Medicine, 2020, 7, 110. | 2.4 | 19 |
| 22 | Investigating a new tablet-based telerehabilitation app in patients with aphasia: a randomised, controlled, evaluator-blinded, multicentre trial protocol. BMJ Open, 2020, 10, e037702. | 1.9 | 6 |
| 23 | Test-Retest-Reliability of Video-Oculography During Free Visual Exploration in Right-Hemispheric Stroke Patients With Neglect. Frontiers in Neuroscience, 2020, 14, 731. | 2.8 | 6 |
| 24 | Evaluation of 1-Year in-Home Monitoring Technology by Home-Dwelling Older Adults, Family Caregivers, and Nurses. Frontiers in Public Health, 2020, 8, 518957. | 2.7 | 25 |
| 25 | Consensus-Based Core Set of Outcome Measures for Clinical Motor Rehabilitation After Strokeâ€"A Delphi Study. Frontiers in Neurology, 2020, 11, 875. | 2.4 | 54 |
| 26 | <p>Isometric Strength Measures are Superior to the Timed Up and Go Test for Fall Prediction in Older Adults: Results from a Prospective Cohort Study</p>. Clinical Interventions in Aging, 2020, Volume 15, 2001-2008. | 2.9 | 10 |
| 27 | Eyetracking during free visual exploration detects neglect more reliably than paper-pencil tests. Cortex, 2020, 129, 223-235. | 2.4 | 34 |
| 28 | Immersive 3D Virtual Reality Cancellation Task for Visual Neglect Assessment: A Pilot Study. Frontiers in Human Neuroscience, 2020, 14, 180. | 2.0 | 28 |
| 29 | Development and Evaluation of Maze-Like Puzzle Games to Assess Cognitive and Motor Function in Aging and Neurodegenerative Diseases. Frontiers in Aging Neuroscience, 2020, 12, 87. | 3.4 | 17 |
| 30 | Wearable Based Calibration of Contactless In-home Motion Sensors for Physical Activity Monitoring in Community-Dwelling Older Adults. Frontiers in Digital Health, 2020, 2, 566595. | 2.8 | 2 |
| 31 | Contact-free sensor signals as a new digital biomarker for cardiovascular disease: chances and challenges. European Heart Journal Digital Health, 2020, 1, 30-39. | 1.7 | 7 |
| 32 | Feasibility of a Home-Based Tablet App for Dexterity Training in Multiple Sclerosis: Usability Study. JMIR MHealth and UHealth, 2020, 8, e18204. | 3.7 | 9 |
| 33 | Effects of intensive care unit ambient sounds on healthcare professionals: results of an online survey and noise exposure in an experimental setting. Intensive Care Medicine Experimental, 2020, 8, 34. | 1.9 | 15 |
| 34 | Validity of pervasive computing based continuous physical activity assessment in community-dwelling old and oldest-old. Scientific Reports, 2019, 9, 9662. | 3.3 | 25 |
| 35 | Technical feasibility of constant-load and high-intensity interval training for cardiopulmonary conditioning using a re-engineered dynamic leg press. BMC Biomedical Engineering, 2019, 1, 26. | 2.6 | 1 |
| 36 | Optimization and Technical Validation of the AIDE-MOI Fall Detection Algorithm in a Real-Life Setting with Older Adults. Sensors, 2019, 19, 1357. | 3.8 | 10 |

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|---|---|---|---|
| 37 | Theta burst stimulation in neglect after stroke: functional outcome and response variability origins. Brain, 2019, 142, 992-1008. | 7.6 | 69 |
| 38 | Perception and Performance on a Virtual Reality Cognitive Stimulation for Use in the Intensive Care Unit: A Non-randomized Trial in Critically Ill Patients. Frontiers in Medicine, 2019, 6, 287. | 2.6 | 26 |
| 39 | Long-Term Home-Monitoring Sensor Technology in Patients with Parkinsonâ€™s Diseaseâ€”Acceptance and Adherence. Sensors, 2019, 19, 5169. | 3.8 | 40 |
| 40 | Reâ€fixation and perseveration patterns in neglect patients during free visual exploration. European Journal of Neuroscience, 2019, 49, 1244-1253. | 2.6 | 22 |
| 41 | Visual Exploration Area in Neglect: A New Analysis Method for Video-Oculography Data Based on Foveal Vision. Frontiers in Neuroscience, 2019, 13, 1412. | 2.8 | 16 |
| 42 | The Impact of Cognitive Load on the Spatial Deployment of Visual Attention: Testing the Role of Interhemispheric Balance With Biparietal Transcranial Direct Current Stimulation. Frontiers in Neuroscience, 2019, 13, 1391. | 2.8 | 5 |
| 43 | Therapist-Guided Tablet-Based Telerehabilitation for Patients With Aphasia: Proof-of-Concept and Usability Study. JMIR Rehabilitation and Assistive Technologies, 2019, 6, e13163. | 2.2 | 26 |
| 44 | Search and Match Task: Development of a Taskified Match-3 Puzzle Game to Assess and Practice Visual Search. JMIR Serious Games, 2019, 7, e13620. | 3.1 | 16 |
| 45 | Comparing the Relaxing Effects of Different Virtual Reality Environments in the Intensive Care Unit: Observational Study. JMIR Perioperative Medicine, 2019, 2, e15579. | 1.0 | 22 |
| 46 | P1â€046: PUZZLING THE MIND: EVALUATING THE DIFFICULTY OF GENERATED PUZZLE GAME LEVELS FOR A PUZZLE GAME INTERVENTION â€” PRELIMINARY RESULTS. Alzheimer's and Dementia, 2018, 14, P284. | 0.8 | 0 |
| 47 | Multimodal Communication in Aphasia: Perception and Production of Co-speech Gestures During Face-to-Face Conversation. Frontiers in Human Neuroscience, 2018, 12, 200. | 2.0 | 20 |
| 48 | Validation of a purposeâ€built chewing gum and smartphone application to evaluate chewing efficiency. Journal of Oral Rehabilitation, 2018, 45, 845-853. | 3.0 | 27 |
| 49 | Investigation of cardiopulmonary exercise testing using a dynamic leg press and comparison with a cycle ergometer. BMC Sports Science, Medicine and Rehabilitation, 2018, 10, 5. | 1.7 | 5 |
| 50 | Attentional reorienting triggers spatial asymmetries in a search task with cross-modal spatial cueing. PLoS ONE, 2018, 13, e0190677. | 2.5 | 4 |
| 51 | The Influence of Alertness on the Spatial Deployment of Visual Attention is Mediated by the Excitability of the Posterior Parietal Cortices. Cerebral Cortex, 2017, 27, 233-243. | 2.9 | 10 |
| 52 | A method for predicting peak work rate for cycle ergometer and treadmill ramp tests. Clinical Physiology and Functional Imaging, 2017, 37, 610-614. | 1.2 | 3 |
| 53 | Evaluation of a new serious game based multitasking assessment tool for cognition and activities of daily living: Comparison with a real cooking task. Computers in Human Behavior, 2017, 70, 500-506. | 8.5 | 26 |
| 54 | Home based training for dexterity in Parkinson's disease: A randomized controlled trial. Parkinsonism and Related Disorders, 2017, 41, 92-98. | 2.2 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Cognitive impairment categorized in community-dwelling older adults with and without dementia using in-home sensors that recognise activities of daily living. Scientific Reports, 2017, 7, 42084. | 3.3 | 90 |
| 56 | Visuo-acoustic stimulation that helps you to relax: A virtual reality setup for patients in the intensive care unit. Scientific Reports, 2017, 7, 13228. | 3.3 | 105 |
| 57 | Contralesional Trunk Rotation Dissociates Real vs. Pseudo-Visual Field Defects due to Visual Neglect in Stroke Patients. Frontiers in Neurology, 2017, 8, 411. | 2.4 | 8 |
| 58 | Evaluation of a novel Serious Game based assessment tool for patients with Alzheimerâ€™s disease. PLoS ONE, 2017, 12, e0175999. | 2.5 | 51 |
| 59 | What Older People Like to Play: Genre Preferences and Acceptance of Casual Games. JMIR Serious Games, 2017, 5, e8. | 3.1 | 64 |
| 60 | Effects of Alzheimerâ€™s Disease on Visual Target Detection: A â€œPeripheral Biasâ€• Frontiers in Aging Neuroscience, 2016, 8, 200. | 3.4 | 18 |
| 61 | Behavioral Differences in the Upper and Lower Visual Hemifields in Shape and Motion Perception. Frontiers in Behavioral Neuroscience, 2016, 10, 128. | 2.0 | 29 |
| 62 | The Responsiveness of the Lucerne ICF-Based Multidisciplinary Observation Scale: A Comparison with the Functional Independence Measure and the Barthel Index. Frontiers in Neurology, 2016, 7, 152. | 2.4 | 25 |
| 63 | Test-retest reliability and four-week changes in cardiopulmonary fitness in stroke patients: evaluation using a robotics-assisted tilt table. BMC Neurology, 2016, 16, 163. | 1.8 | 8 |
| 64 | The influence of naturalistic, directionally non-specific motion on the spatial deployment of visual attention in right-hemispheric stroke. Neuropsychologia, 2016, 92, 181-189. | 1.6 | 12 |
| 65 | Reliability and validity of a new dexterity questionnaire (DextQ-24) in Parkinson's disease. Parkinsonism and Related Disorders, 2016, 33, 78-83. | 2.2 | 23 |
| 66 | Theta burst stimulation over premotor cortex in Parkinsonâ€™s disease: an explorative study on manual dexterity. Journal of Neural Transmission, 2016, 123, 1387-1393. | 2.8 | 6 |
| 67 | Visual Hallucinations in Eye Disease and Lewy Body Disease. American Journal of Geriatric Psychiatry, 2016, 24, 350-358. | 1.2 | 21 |
| 68 | The asymmetrical influence of increasing time-on-task on attentional disengagement. Neuropsychologia, 2016, 92, 107-114. | 1.6 | 9 |
| 69 | Three-Dimensional Multi-degree-of-Freedom Arm Therapy Robot (ARMin). , 2016, , 351-374. | | 9 |
| 70 | Submaximal cardiopulmonary thresholds on a robotics-assisted tilt table, a cycle and a treadmill: a comparative analysis. BioMedical Engineering OnLine, 2015, 14, 104. | 2.7 | 4 |
| 71 | Cathodal HD-tDCS on the right V5 improves motion perception in humans. Frontiers in Behavioral Neuroscience, 2015, 9, 257. | 2.0 | 40 |
| 72 | Comparison of Peak Cardiopulmonary Performance Parameters on a Robotics-Assisted Tilt Table, a Cycle and a Treadmill. PLoS ONE, 2015, 10, e0122767. | 2.5 | 11 |

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|---|---|---|---|
| 73 | Development of a novel driving behavior adaptations questionnaire. International Psychogeriatrics, 2015, 27, 1017-1027. | 1.0 | 4 |
| 74 | Non-Illness-Related Factors Contributing to Traffic Safety in Older Drivers: A Literature Review. Experimental Aging Research, 2015, 41, 325-360. | 1.2 | 7 |
| 75 | Evaluation of Three State-of-the-Art Classifiers for Recognition of Activities of Daily Living from Smart Home Ambient Data. Sensors, 2015, 15, 11725-11740. | 3.8 | 75 |
| 76 | Higher visual functions in the upper and lower visual fields: A pilot study in healthy subjects. , 2015, 2015, 2522-5. | | 2 |
| 77 | Recognition of activities of daily living in healthy subjects using two ad-hoc classifiers. BioMedical Engineering OnLine, 2015, 14, 54. | 2.7 | 21 |
| 78 | Combining qualitative and quantitative methods to analyze serious games outcomes: A pilot study for a new cognitive screening tool. , 2015, 2015, 1327-30. | | 10 |
| 79 | Patient and Informant Views on Visual Hallucinations in Parkinson Disease. American Journal of Geriatric Psychiatry, 2015, 23, 970-976. | 1.2 | 7 |
| 80 | On the Comparison of a Novel Serious Game and Electroencephalography Biomarkers for Early Dementia Screening. Advances in Experimental Medicine and Biology, 2015, 821, 63-77. | 1.6 | 25 |
| 81 | Age-dependent visual exploration during simulated day- and night driving on a motorway: a cross-sectional study. BMC Geriatrics, 2015, 15, 18. | 2.7 | 18 |
| 82 | Adapting a Driving Simulator to Study Pedestriansâ€™ Street-Crossing Decisions: A Feasibility Study. Assistive Technology, 2015, 27, 1-8. | 2.0 | 11 |
| 83 | Feasibility of cardiopulmonary exercise testing and training using a robotics-assisted tilt table in dependent-ambulatory stroke patients. Journal of NeuroEngineering and Rehabilitation, 2015, 12, 88. | 4.6 | 9 |
| 84 | Enhancing treatment effects by combining continuous theta burst stimulation with smooth pursuit training. Neuropsychologia, 2015, 74, 145-151. | 1.6 | 30 |
| 85 | The role of the right frontal eye field in overt visual attention deployment as assessed by free visual exploration. Neuropsychologia, 2015, 74, 37-41. | 1.6 | 16 |
| 86 | Neglect and Motion Stimuli â€“ Insights from a Touchscreen-Based Cancellation Task. PLoS ONE, 2015, 10, e0132025. | 2.5 | 8 |
| 87 | Cue Recognition and Integration â€“ Eye Tracking Evidence of Processing Differences in Sentence Comprehension in Aphasia. PLoS ONE, 2015, 10, e0142853. | 2.5 | 16 |
| 88 | Effects of age and eccentricity on visual target detection. Frontiers in Aging Neuroscience, 2014, 5, 101. | 3.4 | 17 |
| 89 | P4-365: SERIOUS GAMING ENHANCES COGNITIVE FUNCTION IN MCI DUE TO ALZHEIMER'S DISEASE. , 2014, 10, P922-P922. | | 3 |
| 90 | A novel computer test to assess driving-relevant cognitive functions â€“ a pilot study. International Psychogeriatrics, 2014, 26, 229-238. | 1.0 | 9 |

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|---|---|---|---|
| 91 | Three-dimensional, task-specific robot therapy of the arm after stroke: a multicentre, parallel-group randomised trial. Lancet Neurology, The, 2014, 13, 159-166. | 10.2 | 473 |
| 92 | Visual complaints and visual hallucinations in Parkinson's disease. Parkinsonism and Related Disorders, 2014, 20, 318-322. | 2.2 | 73 |
| 93 | A new method to measure higher visual functions in an immersive environment. BioMedical Engineering OnLine, 2014, 13, 104. | 2.7 | 4 |
| 94 | Can a novel computerized cognitive screening test provide additional information for early detection of Alzheimer's disease?. , 2014, 10, 790-798. | | 62 |
| 95 | A Web-Based Non-Intrusive Ambient System to Measure and Classify Activities of Daily Living. Journal of Medical Internet Research, 2014, 16, e175. | 4.3 | 64 |
| 96 | Social networking sites and older users â€“ a systematic review. International Psychogeriatrics, 2013, 25, 1041-1053. | 1.0 | 131 |
| 97 | Comfort of two shoulder actuation mechanisms for arm therapy exoskeletons: a comparative study in healthy subjects. Medical and Biological Engineering and Computing, 2013, 51, 781-789. | 2.8 | 12 |
| 98 | Estimating the patientï¿½s contribution during robot-assisted therapy. Journal of Rehabilitation Research and Development, 2013, 50, 379. | 1.6 | 16 |
| 99 | Vision and Night Driving Abilities of Elderly Drivers. Traffic Injury Prevention, 2013, 14, 477-485. | 1.4 | 57 |
| 100 | Non-Invasive Brain Stimulation in Neglect Rehabilitation: An Update. Frontiers in Human Neuroscience, 2013, 7, 248. | 2.0 | 53 |
| 101 | Ecological Validity of Virtual Reality Daily Living Activities Screening for Early Dementia: Longitudinal Study. JMIR Serious Games, 2013, 1, e1. | 3.1 | 129 |
| 102 | Can a Novel Web-Based Computer Test Predict Poor Simulated Driving Performance? A Pilot Study With Healthy and Cognitive-Impaired Participants. Journal of Medical Internet Research, 2013, 15, e232. | 4.3 | 5 |
| 103 | Three-Dimensional Multi-Degree-of-Freedom Arm Therapy Robot (ARMin). , 2012, , 141-157. | | 16 |
| 104 | Time Independent Functional Task Training: A case study on the effect of inter-joint coordination driven haptic guidance in stroke therapy. , 2011, 2011, 5975501. | | 10 |
| 105 | A robotic system to train activities of daily living in a virtual environment. Medical and Biological Engineering and Computing, 2011, 49, 1213-1223. | 2.8 | 151 |
| 106 | Cognition and driving in older persons. Swiss Medical Weekly, 2011, 140, w13136. | 1.6 | 28 |
| 107 | Retraining of interjoint arm coordination after stroke using robot-assisted time-independent functional training. Journal of Rehabilitation Research and Development, 2011, 48, 299. | 1.6 | 38 |
| 108 | Transferring ARMin to the Clinics and Industry. Topics in Spinal Cord Injury Rehabilitation, 2011, 17, 54-59. | 1.8 | 23 |

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|---|---|---|---|
| 109 | ARMin III â€“ Arm Therapy Exoskeleton with an Ergonomic Shoulder Actuation. Applied Bionics and Biomechanics, 2009, 6, 127-142. | 1.1 | 240 |
| 110 | ARMin III â€“ arm therapy exoskeleton with an ergonomic shoulder actuation. Applied Bionics and Biomechanics, 2009, 6, 127-142. | 1.1 | 303 |
| 111 | Effects of Arm Training with the Robotic Device ARMin I in Chronic Stroke: Three Single Cases. Neurodegenerative Diseases, 2009, 6, 240-251. | 1.4 | 42 |
| 112 | Improving backdrivability in geared rehabilitation robots. Medical and Biological Engineering and Computing, 2009, 47, 441-447. | 2.8 | 57 |
| 113 | Effects of intensive arm training with the rehabilitation robot ARMin II in chronic stroke patients: four single-cases. Journal of NeuroEngineering and Rehabilitation, 2009, 6, 46. | 4.6 | 140 |
| 114 | ARMin - Exoskeleton Robot for Stroke Rehabilitation. IFMBE Proceedings, 2009, , 127-130. | 0.3 | 40 |
| 115 | Patient-tracking for an over-ground gait training system. , 2009, , . | | 5 |
| 116 | Shoulder actuation mechanisms for arm rehabilitation exoskeletons. , 2008, , . | | 41 |
| 117 | A novel paradigm for patient-cooperative control of upper-limb rehabilitation robots. Advanced Robotics, 2007, 21, 843-867. | 1.8 | 89 |
| 118 | ARMin II - 7 DoF rehabilitation robot: mechanics and kinematics. , 2007, , . | | 137 |
| 119 | ARMin - Exoskeleton for Arm Therapy in Stroke Patients. , 2007, , . | | 126 |
| 120 | Patient-cooperative control strategies for coordinated functional arm movements. , 2007, , . | | 9 |
| 121 | ARMin: a robot for patient-cooperative arm therapy. Medical and Biological Engineering and Computing, 2007, 45, 887-900. | 2.8 | 373 |
| 122 | ARMin â€“ Roboter fÃ¼r die Bewegungstherapie der oberen ExtremitÃten (ARMin â€“ Robot for Movement) Tj ETQq0 0 0 rgBT /Overloc | 0.8 | 12 |
| 123 | Methods for Measuring and Identifying Sounds in the Intensive Care Unit. Frontiers in Medicine, 0, 9, . | 2.6 | 4 |