# Stephan M Jonas

List of Publications by Year
in descending order

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|---|---|---|---|
| 54 papers | 721 citations | 623188 14 h-index | 610482 24 g-index |
| 60 all docs | 60 docs citations | 60 times ranked | 1048 citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Feature description with SIFT, SURF, BRIEF, BRISK, or FREAK? A general question answered for bone age assessment. Computers in Biology and Medicine, 2016, 68, 67-75. | 3.9 | 86 |
| 2 | Microfluidic characterization of cilia-driven fluid flow using optical coherence tomography-based particle tracking velocimetry. Biomedical Optics Express, 2011, 2, 2022. | 1.5 | 72 |
| 3 | Case study in major quotation errors: a critical commentary on the Newcastle–Ottawa scale. European Journal of Epidemiology, 2018, 33, 1025-1031. | 2.5 | 60 |
| 4 | eMedOffice: A web-based collaborative serious game for teaching optimal design of a medical practice. BMC Medical Education, 2012, 12, 104. | 1.0 | 44 |
| 5 | Smartphone-based diagnostic for preeclampsia: an mHealth solution for administering the Congo Red Dot (CRD) test in settings with limited resources. Journal of the American Medical Informatics Association: JAMIA, 2016, 23, 166-173. | 2.2 | 41 |
| 6 | Wearable Sensors for eLearning of Manual Tasks: Using Forearm EMG in Hand Hygiene Training. Sensors, 2016, 16, 1221. | 2.1 | 34 |
| 7 | Analysis of Craniocardiac Malformations in Xenopus using Optical Coherence Tomography. Scientific Reports, 2017, 7, 42506. | 1.6 | 32 |
| 8 | Deep-learning-based multi-class segmentation for automated, non-invasive routine assessment of human pluripotent stem cell culture status. Computers in Biology and Medicine, 2021, 129, 104172. | 3.9 | 32 |
| 9 | White-space models for offline Arabic handwriting recognition. , 2008, , . | | 27 |
| 10 | Visualizing flow in an intact CSF network using optical coherence tomography: implications for human congenital hydrocephalus. Scientific Reports, 2019, 9, 6196. | 1.6 | 27 |
| 11 | Tumor Volume as a Prognostic Factor in Resectable Malignant Melanoma. Dermatology, 2014, 228, 66-70. | 0.9 | 24 |
| 12 | Recursive neural networks in hospital bed occupancy forecasting. BMC Medical Informatics and Decision Making, 2019, 19, 39. | 1.5 | 24 |
| 13 | Psychologist in a Pocket: Lexicon Development and Content Validation of a Mobile-Based App for Depression Screening. JMIR MHealth and UHealth, 2016, 4, e88. | 1.8 | 23 |
| 14 | The mobile sleep lab app: An open-source framework for mobile sleep assessment based on consumer-grade wearable devices. Computers in Biology and Medicine, 2018, 103, 8-16. | 3.9 | 16 |
| 15 | Deterioration of R-Wave Detection in Pathology and Noise: A Comprehensive Analysis Using Simultaneous Truth and Performance Level Estimation. IEEE Transactions on Biomedical Engineering, 2017, 64, 2163-2175. | 2.5 | 15 |
| 16 | Simplifying Electronic Data Capture in Clinical Trials: Workflow Embedded Image and Biosignal File Integration and Analysis via Web Services. Journal of Digital Imaging, 2014, 27, 571-580. | 1.6 | 14 |
| 17 | Quantitative optical coherence tomography imaging of intermediate flow defect phenotypes in ciliary physiology and pathophysiology. Journal of Biomedical Optics, 2015, 20, 1. | 1.4 | 14 |
| 18 | Validation of an mHealth App for Depression Screening and Monitoring (Psychologist in a Pocket): Correlational Study and Concurrence Analysis. JMIR MHealth and UHealth, 2019, 7, e12051. | 1.8 | 13 |

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|---|---------|-----|-----------|
| 19 | Endogenous contrast blood flow imaging in embryonic hearts using hemoglobin contrast subtraction angiography. Optics Letters, 2012, 37, 2979. | 1.7 | 10 |
| 20 | Wearable technology as a booster of clinical care. Proceedings of SPIE, 2014, , . | 0.8 | 8 |
| 21 | Comparison of mobile and clinical EEG sensors through resting state simultaneous data collection. PeerJ, 2020, 8, e8969. | 0.9 | 8 |
| 22 | Wearable Sensors in Medical Education: Supporting Hand Hygiene Training with a Forearm EMG. Studies in Health Technology and Informatics, 2015, 211, 286-91. | 0.2 | 8 |
| 23 | Sensor Failure Detection in Ambient Assisted Living Using Association Rule Mining. Sensors, 2020, 20, 6760. | 2.1 | 7 |
| 24 | IMAGO: Image-guided navigation for visually impaired people. Journal of Ambient Intelligence and Smart Environments, 2015, 7, 679-692. | 0.8 | 6 |
| 25 | Hospital-wide ELectronic medical record evaluated computerised decision support system to improve outcomes of Patients with staphylococcal bloodstream infection (HELP): study protocol for a multicentre stepped-wedge cluster randomised trial. BMJ Open, 2020, 10, e033391. | 0.8 | 6 |
| 26 | Privacy-Preserving Record Grouping and Consent Management Based on a Public-Private Key Signature Scheme: Theoretical Analysis and Feasibility Study. Journal of Medical Internet Research, 2019, 21, e12300. | 2.1 | 6 |
| 27 | Evaluating 3D Human Motion Capture on Mobile Devices. Applied Sciences (Switzerland), 2022, 12, 4806. | 1.3 | 6 |
| 28 | Mobile Motion Tracking for Disease Prevention and Rehabilitation Using Apple ARKit. Studies in Health Technology and Informatics, 2021, 279, 78-86. | 0.2 | 5 |
| 29 | Gamification of Clinical Routine: The Dr. Fill Approach. Studies in Health Technology and Informatics, 2016, 225, 262-6. | 0.2 | 5 |
| 30 | OC ToGo: bed site image integration into OpenClinica with mobile devices. Proceedings of SPIE, 2014, , . | 0.8 | 4 |
| 31 | Towards quantitative assessment of calciphylaxis. , 2014, , . | | 4 |
| 32 | Bone age assessment meets SIFT. Proceedings of SPIE, 2015, , . | 0.8 | 4 |
| 33 | Human wound photogrammetry with low-cost hardware based on automatic calibration of geometry and color. Proceedings of SPIE, 2015, , . | 0.8 | 3 |
| 34 | Nicht-lineare Zeitnormierung im Langzeit-EKG. Informatik Aktuell, 2014, , 300-305. | 0.4 | 3 |
| 35 | Low-Cost Wearable for Fatigue and Back-Stress Measurement in Nursing. Studies in Health Technology and Informatics, 2016, 225, 372-6. | 0.2 | 3 |
| 36 | Interrater reliability in the assessment of physiotherapy students. BMC Medical Education, 2022, 22, 186. | 1.0 | 3 |

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|---|---------|-----|-----------|
| 37 | Entropy-based measures of in vivo cilia-driven microfluidic mixing derived from quantitative optical imaging. Proceedings of SPIE, 2012, , . | 0.8 | 2 |
| 38 | A novel approach to quantifying ciliary physiology: microfluidic mixing driven by a ciliated biological surface. Lab on A Chip, 2013, 13, 4160. | 3.1 | 2 |
| 39 | Urban Positioning Using Smartphone-Based Imaging. Informatik Aktuell, 2014, , 186-191. | 0.4 | 2 |
| 40 | Automatic Recognition of Epileptiform EEG Abnormalities. Studies in Health Technology and Informatics, 2018, 247, 171-175. | 0.2 | 2 |
| 41 | Automated Error Detection in Physiotherapy Training. Studies in Health Technology and Informatics, 2018, 248, 164-171. | 0.2 | 2 |
| 42 | mBalance: Detect Postural Imbalance with Mobile Devices. Studies in Health Technology and Informatics, 2022, 293, 30-38. | 0.2 | 2 |
| 43 | Towards efficient mobile image-guided navigation through removal of outliers. Eurasip Journal on Image and Video Processing, 2016, 2016, . | 1.7 | 1 |
| 44 | Quantitative Phenotyping of Xenopus Embryonic Heart Pathophysiology Using Hemoglobin Contrast Subtraction Angiography to Screen Human Cardiomyopathies. Frontiers in Physiology, 2019, 10, 1197. | 1.3 | 1 |
| 45 | Multi-modal and multiscale imaging approaches reveal novel cardiovascular pathophysiology in <i>Drosophila melanogaster</i>. Biology Open, 2019, 8, . | 0.6 | 1 |
| 46 | A Holistic System for Pre-clinical Diagnosis of Sleep Disorders in the Home Environment. , 2019, , . | | 1 |
| 47 | An ImageJ Plugin for Whole Slide Imaging. Informatik Aktuell, 2014, , 415-420. | 0.4 | 1 |
| 48 | Quantification of microfluidic dye mixing using front line tracking in curvature scale space. Proceedings of SPIE, 2013, , . | 0.8 | 0 |
| 49 | OCT imaging of craniofacial anatomy in xenopus embryos (Conference Presentation). , 2016, , . | | 0 |
| 50 | Microfluidic Phenotyping of Cilia-Driven Mixing for the Assessment of Respiratory Diseases. Informatik Aktuell, 2012, , 135-140. | 0.4 | 0 |
| 51 | Outliers in 3D Point Clouds Applied to Efficient Image-Guided Localization. Informatik Aktuell, 2015, , 197-202. | 0.4 | 0 |
| 52 | Learning Manual Skills with Smart Wearables. , 2019, , 229-250. | | 0 |
| 53 | Gamification of Clinical Routine: The Dr. Fill Approach. Studies in Health Technology and Informatics, 2016, 225, 629-30. | 0.2 | 0 |
| 54 | Evaluation of Deep Clustering for Diarization of Aphasic Speech. Studies in Health Technology and Informatics, 2019, 260, 81-88. | 0.2 | 0 |