

**Assessing hemodynamics from the photoplethysmogram to gain insights into vascular age : a review from VascAgeNet**  
Charlton, Peter H.; Paliakaite, Birute; **Pilt, Kristjan**; Bachler, Martin; Zanelli, Serena; Kulin, Daniel; Allen, John; Hallab, Magid; Bianchini, Elisabetta; Mayer, Christopher C. American journal of physiology-heart and circulatory physiology 2022 / p. H493-H522  
<https://doi.org/10.1152/ajpheart.00392.2021> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Association between optical signal derived aortic augmentation index and cardiovascular risk factors in healthy volunteers**

**Pikta, Marika; Viigimaa, Margus; Pilt, Kristjan; Kõõts, Kristina; Meigas, Kalju** Reports on global health research 2020 / art. 119, 8 p. : ill <https://doi.org/10.29011/rghr-119.100019> <https://www.gavinpublishers.com/article/view/association-between-optical-signal-derived-aortic-augmentation-index-and-cardiovascular-risk-factors-in-healthy-volunteers>

**Influence of mental stress on the arterial stiffness parameters detected from photoplethysmographic signal waveform**  
**Pilt, Kristjan; Karai, Deniss; Bachmann, Maie; Gavriljuk, Marietta; Allik, Ardo; Uudeberg, Tuuli** 2022 18th Biennial Baltic Electronics Conference (BEC) 2022 / 4 p <https://doi.org/10.1109/BEC56180.2022.9935609>

**Investigation of photoplethysmographic signal augmentation index estimation differences between fingers**

**Pilt, Kristjan; Silluta, Sandra; Kõõts, Kristina; Karai, Deniss; Meigas, Kalju; Viigimaa, Margus** EMBEC & NBC 2017 : joint conference of the European Medical and Biological Engineering Conference (EMBEC) and the Nordic-Baltic Conference on Biomedical Engineering and Medical Physics (NBC), Tampere, Finland, June 2017 2018 / p. 819-822 : ill [https://doi.org/10.1007/978-981-10-5122-7\\_205](https://doi.org/10.1007/978-981-10-5122-7_205)

**In-vitro investigation of flow profiles in arteries using the photoplethysmograph**

**Pilt, Kristjan**; May, James M.; Kyriacou, Panayiotis A. Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC) 2021 / p. 7211-7214 <https://doi.org/10.1109/EMBC46164.2021.9629713> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Photoplethysmographic signal rising front analysis for the discrimination of subjects with increased arterial ageing**

**Pilt, Kristjan; Meigas, Kalju; Kõõts, Kristina; Viigimaa, Margus** Proceedings of the Estonian Academy of Sciences 2014 / p. 221-226 : ill

**PPG and bioimpedance-based wearable applications in heart rate monitoring – a comprehensive review**

Lapsa, Didzis; Janeliukstis, Rims; **Metshein, Margus**; Selavo, Leo Applied sciences 2024 / art. 7451  
<https://doi.org/10.3390/app14177451>

**Second derivative analysis of forehead photoplethysmographic signal in healthy volunteers and diabetes patients [Electronic resource]**

**Pilt, Kristjan; Meigas, Kalju; Temitski, Kristina; Viigimaa, Margus** IFMBE proceedings ; Vol. 39 2012 / p. 410-413 : ill [CD-ROM]  
[https://link.springer.com/chapter/10.1007/978-3-642-29305-4\\_109](https://link.springer.com/chapter/10.1007/978-3-642-29305-4_109)

**Sensor-location-specific joint acquisition of peripheral artery bioimpedance and photoplethysmogram for wearable applications**

**Metshein, Margus; Abdullayev, Anar**; Gautier, Antoine; Larras, Benoit; Frappe, Antoine; Cardiff, Barry; **Annus, Paul; Land, Raul; Märten, Olev** Sensors 2023 / art. 7111 <https://doi.org/10.3390/s23167111> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**The analysis of finger photoplethysmographic waveform in healthy volunteers and diabetes patients [Electronic resource]**

**Pilt, Kristjan; Meigas, Kalju; Temitski, Kristina; Viigimaa, Margus** IFMBE proceedings ; Vol. 38 2013 / p. 55-58 : ill [CD-ROM]