

Tom Torfs

List of Publications by Year in descending order

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26
papers

1,197
citations

516710

16
h-index

642732

23
g-index

26
all docs

26
docs citations

26
times ranked

1412
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermoelectric Converters of Human Warmth for Self-Powered Wireless Sensor Nodes. IEEE Sensors Journal, 2007, 7, 650-657.	4.7	323
2	Vital-sign monitoring and spatial tracking of multiple people using a contactless radar-based sensor. Nature Electronics, 2019, 2, 252-262.	26.0	190
3	A Direct Phase-Tracking Doppler Radar Using Wavelet Independent Component Analysis for Non-Contact Respiratory and Heart Rate Monitoring. IEEE Transactions on Biomedical Circuits and Systems, 2018, 12, 632-643.	4.0	71
4	CMOS-Based High-Density Silicon Microprobe Arrays for Electronic Depth Control in Intracortical Neural Recording. Journal of Microelectromechanical Systems, 2011, 20, 1439-1448.	2.5	67
5	Ultra-low-power biopotential interfaces and their applications in wearable and implantable systems. Microelectronics Journal, 2009, 40, 1313-1321.	2.0	64
6	Two-Dimensional Multi-Channel Neural Probes With Electronic Depth Control. IEEE Transactions on Biomedical Circuits and Systems, 2011, 5, 403-412.	4.0	51
7	Frequency-Tracking CW Doppler Radar Solving Small-Angle Approximation and Null Point Issues in Non-Contact Vital Signs Monitoring. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 671-680.	4.0	49
8	A 400 G $\hat{\circ}$ Input-Impedance Active Electrode for Non-Contact Capacitively Coupled ECG Acquisition With Large Linear-Input-Range and High CM-Interference-Tolerance. IEEE Transactions on Biomedical Circuits and Systems, 2019, 13, 376-386.	4.0	46
9	2-D Localization, Angular Separation and Vital Signs Monitoring Using a SISO FMCW Radar for Smart Long-Term Health Monitoring Environments. IEEE Internet of Things Journal, 2021, 8, 11065-11077.	8.7	46
10	Evaluation of a Multichannel Non-Contact ECG System and Signal Quality Algorithms for Sleep Apnea Detection and Monitoring. Sensors, 2018, 18, 577.	3.8	45
11	Enabling Robust Radar-Based Localization and Vital Signs Monitoring in Multipath Propagation Environments. IEEE Transactions on Biomedical Engineering, 2021, 68, 3228-3240.	4.2	37
12	Noncontact ECG Recording System With Real Time Capacitance Measurement for Motion Artifact Reduction. IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 617-625.	4.0	35
13	Hybrid Thermoelectricâ€“Photovoltaic Generators in Wireless Electroencephalography Diadem and Electrocardiography Shirt. Journal of Electronic Materials, 2010, 39, 1674-1680.	2.2	34
14	Clinical validation of a low-power and wearable ECG patch for long term full-disclosure monitoring. Journal of Electrocardiology, 2014, 47, 881-889.	0.9	32
15	Systolic Time Interval Estimation Using Continuous Wave Radar With On-Body Antennas. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 129-139.	6.3	22
16	Physiological Driver Monitoring Using Capacitively Coupled and Radar Sensors. Applied Sciences (Switzerland), 2019, 9, 3994.	2.5	21
17	Capacitive multi-electrode array with real-time electrode selection for unobtrusive ECG & BIOZ monitoring. , 2019, 2019, 5621-5624.		14
18	Sensor Fusion of Capacitively Coupled ECG and Continuous-Wave Doppler Radar for Improved Unobtrusive Heart Rate Measurements. IEEE Journal on Emerging and Selected Topics in Circuits and Systems, 2018, 8, 316-328.	3.6	12

#	ARTICLE	IF	CITATIONS
19	Digital Linear Discrete FMCW Radar for Healthcare Applications. , 2019, , .		12
20	Automatic radar-based 2-D localization exploiting vital signs signatures. Scientific Reports, 2022, 12, 7651.	3.3	8
21	Capacitively-coupled ECG and respiration for the unobtrusive detection of sleep apnea. Physiological Measurement, 2021, 42, 024001.	2.1	7
22	Capacitively-Coupled ECG and Respiration for Sleepâ€‘Wake Prediction and Risk Detection in Sleep Apnea Patients. Sensors, 2021, 21, 6409.	3.8	3
23	Active capacitive ECG system with all-digital â€œdriven right legâ€‘common mode suppression. , 2021, , .		3
24	Sensor Cube: A Modular, Ultra-Compact, Power-Aware Platform for Sensor Networks. IPSJ Digital Courier, 2007, 3, 309-319.	0.3	2
25	Automatic quality assessment of capacitively-coupled bioimpedance signals for respiratory activity monitoring. Biomedical Signal Processing and Control, 2021, 68, 102775.	5.7	2
26	Wireless Vestibular Evoked Myogenic Potentials System. IEEE Sensors Journal, 2008, 8, 1941-1947.	4.7	1