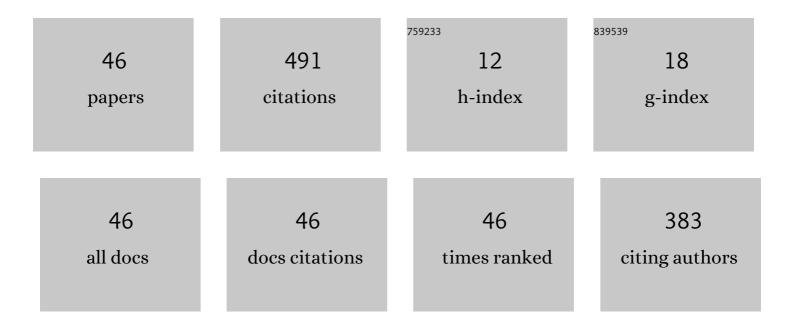
Fabian Michler

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Radar-Based Heart Sound Detection. Scientific Reports, 2018, 8, 11551.	3.3	99
2	A dataset of clinically recorded radar vital signs with synchronised reference sensor signals. Scientific Data, 2020, 7, 291.	5.3	41
3	Local Pulse Wave Detection Using Continuous Wave Radar Systems. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2017, 1, 81-89.	3.4	34
4	Automatic Signal Quality Index Determination of Radar-Recorded Heart Sound Signals Using Ensemble Classification. IEEE Transactions on Biomedical Engineering, 2020, 67, 773-785.	4.2	34
5	A dataset of radar-recorded heart sounds and vital signs including synchronised reference sensor signals. Scientific Data, 2020, 7, 50.	5.3	28
6	A Clinically Evaluated Interferometric Continuous-Wave Radar System for the Contactless Measurement of Human Vital Parameters. Sensors, 2019, 19, 2492.	3.8	24
7	Multilayer Topology Optimization of Wideband SIW-to-Waveguide Transitions. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1326-1339.	4.6	23
8	Contactless analysis of heart rate variability during cold pressor test using radar interferometry and bidirectional LSTM networks. Scientific Reports, 2021, 11, 3025.	3.3	19
9	Influence of the PCB Manufacturing Process on the Measurement Error of Planar Relative Permittivity Sensors Up To 100 GHz. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2793-2804.	4.6	18
10	Continuous In-Bed Monitoring of Vital Signs Using a Multi Radar Setup for Freely Moving Patients. Sensors, 2020, 20, 5827.	3.8	18
11	Microw(h)att?! Ultralow-Power Six-Port Radar: Realizing Highly Integrated Portable Radar Systems with Good Motion Sensitivity at Relatively Low Cost. IEEE Microwave Magazine, 2018, 19, 91-98.	0.8	15
12	Micrometer Sensing With Microwaves: Precise Radar Systems for Innovative Measurement Applications. IEEE Journal of Microwaves, 2021, 1, 202-217.	6.5	15
13	A contactless system for continuous vital sign monitoring in palliative and intensive care. , 2018, , .		12
14	Design of Planar Microstrip-to-Waveguide Transitions Using Topology Optimization. , 2019, , .		11
15	Pulse Wave Velocity Detection Using a 24 GHz Six-Port Based Doppler Radar. , 2019, , .		10
16	(Micro)Metering with Microwaves: A Low-Cost, Low-Power, High-Precision Radar System. IEEE Microwave Magazine, 2019, 20, 91-97.	0.8	9
17	Microstrip-to-waveguide transition in planar form using a substrate integrated waveguide. , 2018, , .		7
18	Novel Approach for Virtual Coupling of Trains Using Different Modulation and Coding Schemes. , 2018, , .		7

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#	Article	IF	CITATIONS
19	Zero-bias schottky power detector design for six-port based radar systems. , 2017, , .		5
20	Six-Port Based Multitone and Low-Power Radar System for Waveguide Measurements in Smart Factories. , 2018, , .		5
21	Miniaturized Hybrid Frequency Reader for Contactless Measurement Scenarios Using Resonant Surface Acoustic Wave Sensors. Sensors, 2021, 21, 2367.	3.8	5
22	Calibration scheme for microwave biosensors using exclusively liquid calibration standards. , 2016, , .		4
23	Contactless Carotid Pulse Measurement Using Continuous Wave Radar. , 2018, , .		4
24	Nothing Beats SNR: Single-Digit Micrometer Ranging Using a Low-Power CW Radar Featuring a Low-Weight 3D-Printed Horn Antenna. IEEE Microwave Magazine, 2020, 21, 88-95.	0.8	4
25	Error compensation of the temperature influence on radar based displacement measurements. , 2017, , .		3
26	Fast dual-synthesizer for six-port in-situ linearization in the 2.4 GHz ISM-band. , 2018, , .		3
27	Design of a Rotary Coupler for Data Transmission on Fast Rotating Mechanical Shafts and Roboter Arms. , 2019, , .		3
28	In-Situ-Linearization for Instantaneous Frequency Measurement Systems. , 2019, , .		3
29	Postprocessing and Evaluation for a Radar-Based True-Speed-Over-Ground Estimation System. IEEE Microwave and Wireless Components Letters, 2021, 31, 1251-1254.	3.2	3
30	Support Vector Machine-Based Instantaneous Presence Detection for Continuous Wave Radar Systems. , 2018, , .		2
31	A Planar 24 GHz Switched-Beam Antenna Based on PIN Diodes for Remote Sensing Applications. , 2018, , .		2
32	A Resonant Substrate Integrated Waveguide Measurement System for True Relative Permittivity Extraction of PCB Materials up to 90 GHz. , 2018, , .		2
33	Performance Analysis of an Ultra Wideband Transceiver for Real- Time Localization. , 2018, , .		2
34	Lowâ€power contactless LCâ€ŧank based respiratory sensor. Electronics Letters, 2019, 55, 304-306.	1.0	2
35	Frequency Readjustment of Excitation Signals for Resonant Surface Acoustic Wave Sensors in the 2.45 GHz ISM Band. , 2019, , .		2
36	An Automatic Gain and Offset Control Circuit for DC-Coupled Continuous-Wave Radar Systems. , 2020, , .		2

#	Article	IF	CITATIONS
37	On the Impact of System Nonlinearities in Continuous-Wave Radar Systems for Vital Parameter Sensing. , 2020, , .		2
38	An Ultra Broadband Multi-Tone Six-Port Radar for Distance Measurements in K-Band Waveguides. , 2020, , .		2
39	Rotary Coupler in Microstrip Line Design for Data Transmission in the 2.45GHz ISM Band. , 2020, , .		2
40	Implementation and Assessment of a Radar Based True-Speed-Over-Ground Estimation Approach Utilizing Complex-Valued Correlation. , 2022, , .		2
41	Low-power frequency synthesizer for multi-tone six-port radar. , 2018, , .		1
42	Respiration Extraction from Radar Heart Sound Measurements. , 2019, 2019, 6533-6536.		1
43	A Digital Correction Method for Increased Dynamic Range in Interferometric Six-Port Radars. IEEE Microwave and Wireless Components Letters, 2021, 31, 997-1000.	3.2	1
44	Phased Array Approach for Vehicle-to-Infrastructure Communication in Train Stations. , 2019, , .		0
45	Digital Frequency Control Loop for Continuous-Wave and Stepped-Frequency Radars. , 2022, , .		0
46	Evaluation of Embedded Algorithms for a Six-Port-Based Frequency Measurement System. , 2022, , .		0