

# Wolfgang Bärsch

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6851480/publications.pdf>

Version: 2024-02-01

92  
papers

790  
citations

687363

13  
h-index

642732

23  
g-index

94  
all docs

94  
docs citations

94  
times ranked

772  
citing authors

#	ARTICLE	IF	CITATIONS
1	mm-Wave Complex Permittivity Extraction of LTCC Substrate Under the Influence of Surface Roughness. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-11.	4.7	5
2	Scattering Properties of Antennas used For Stimulating Radar Sensors. , 2022, , .		0
3	A Miniaturized and Hybrid SIW Resonator Solution for Filtering Power Divider and Antenna Array. , 2022, , .		1
4	A Novel Frequency Selective Antenna for mm-Wave Phased Arrays. , 2022, , .		0
5	Submicrowatt CMOS Rectifier for a Fully Passive Wake-Up Receiver. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4803-4812.	4.6	11
6	Generating synthetic radar targets using azimuthal distributed scatterer for automotive applications. , 2021, , .		2
7	Ka-band Coupled-resonator Filtering Magneto-Electric Dipole Antenna. , 2021, , .		8
8	A Compact Slow-Wave Filter with Double-sided Selectivity and Wide Out-of-Band Rejection. , 2021, , .		1
9	Additive manufacturing of a 4th-order K-band semi-planar slow-wave filter. , 2021, , .		3
10	Compact Filtering Power Divider with Distributed Compline Coupled-Resonators. , 2021, , .		1
11	A reconfigurable dual-mode Filter in Embedded Suspended Stripline Substrate Technology (ESSS). , 2021, , .		2
12	A Miniaturized HF/UHF Dual-Band RFID Tag Antenna. , 2021, , .		2
13	Compact Cavity-backed Magneto-Electric Dipole Array Filtenna Using Hybrid Coupled-resonators. , 2021, , .		2
14	3D-Printed 140 GHz Beam-Scanning Antenna Using Partially Reflecting Surface. , 2020, , .		1
15	An On-Chip Analog Spectrum Analyzer Based on Miller Frequency Divider. , 2020, , .		0
16	A D-Band 3D-Printed Antenna. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 433-442.	3.1	36
17	140 GHz Additive Manufacturing Low-Cost and High-Gain Fabry-Perot Resonator Antenna. , 2020, , .		7
18	A Review of Broadband Low-Cost and High-Gain Low-Terahertz Antennas for Wireless Communications Applications. IEEE Access, 2020, 8, 57615-57629.	4.2	47

#	ARTICLE	IF	CITATIONS
19	A Novel Planar Coupled-resonator Cavity-backed Slot Array Filtenna. , 2020, , .		4
20	On the assimilation of absolute geodetic dynamic topography in a global ocean model: impact on the deep ocean state. Journal of Geodesy, 2019, 93, 141-157.	3.6	9
21	Compact broadband frequency selective microstrip antenna and its application to indoor positioning systems for wireless networks. IET Microwaves, Antennas and Propagation, 2019, 13, 1142-1150.	1.4	7
22	Dynamic ocean topography of the northern Nordic seas: a comparison between satellite altimetry and ocean modeling. Cryosphere, 2019, 13, 611-626.	3.9	12
23	Embedded Suspended Stripline Substrate Technology (ESSS) as a Catalyst for Low-loss PCB Structures in the Ka-Band. , 2019, , .		3
24	Geostrophic currents in the northern Nordic Seas from a combination of multi-mission satellite altimetry and ocean modeling. Earth System Science Data, 2019, 11, 1765-1781.	9.9	2
25	Dependable Wireless Communication and Localization in the Internet of Things. Studies in Systems, Decision and Control, 2019, , 209-256.	1.0	1
26	A compact half-mode substrate integrated waveguide filter based on a circular resonator. , 2018, , .		3
27	Numerical analysis of meandered line based uniform antenna array. , 2018, , .		1
28	A System-on-Chip Crystal-Less Wireless Sub-GHz Transmitter. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 1431-1439.	4.6	8
29	Integration solutions for reconfigurable multi-standard wireless transceivers. Elektrotechnik Und Informationstechnik, 2018, 135, 18-23.	1.1	4
30	Broadband Dual-Mode Dielectric Resonator Filters. , 2018, , .		2
31	SCPA Transformer Based Matching Network Design Flow and SiP Implementation. , 2018, , .		2
32	Automated driving. Elektrotechnik Und Informationstechnik, 2018, 135, 303-303.	1.1	1
33	Miniature Triple-Mode Dielectric Resonator Filters. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5625-5631.	4.6	12
34	Radar target stimulation for automotive applications. IET Radar, Sonar and Navigation, 2018, 12, 1096-1103.	1.8	21
35	Miniature Triple-Mode Dielectric Resonator Filters. , 2018, , .		7
36	Direct Metal Printed 4th order Stepped Impedance Filter in the C/X Band. , 2018, , .		5

#	ARTICLE	IF	CITATIONS
37	Frequency dividers in radar target stimulator applications. Elektrotechnik Und Informationstechnik, 2018, 135, 344-351.	1.1	4
38	Tag Size Matters: Miniaturized RFID Tags to Connect Smart Objects to the Internet. IEEE Microwave Magazine, 2018, 19, 101-111.	0.8	29
39	Emerging technologies and concepts for 5G applications – A. making additive manufactured ceramic microwave filters ready for 5G. , 2018, , .		2
40	UHF RFID Sensor Tag Antenna Concept for Stable and Distance Independent Remote Monitoring. , 2018, , .		3
41	Virtual reality for automotive radars. Elektrotechnik Und Informationstechnik, 2018, 135, 335-343.	1.1	24
42	A differential threshold voltage compensated RF-DC power converter for RFID tag ICs. , 2017, , .		2
43	New Concept for Power Compression Improvement of GaN Cascodes in Broadband Power Amplifiers. IEEE Microwave and Wireless Components Letters, 2017, 27, 590-592.	3.2	4
44	Reconfigurable ultra-wide-band patch antenna: Cognitive radio. , 2017, , .		2
45	Development of monoblock TM dielectric resonator filters with additive manufacturing. IET Microwaves, Antennas and Propagation, 2017, 11, 1992-1996.	1.4	10
46	Fast two dimensional position update system for UHF RFID tag tracking. , 2017, , .		5
47	Passive differential UHF RFID front-ends in a 40 nm CMOS technology. , 2017, , .		5
48	Dual-mode dual-band conductor-loaded dielectric resonator filters. , 2017, , .		4
49	Highly scalable radar target simulator for autonomous driving test beds. , 2017, , .		31
50	Monitoring the Arctic Seas: How Satellite Altimetry Can Be Used to Detect Open Water in Sea-Ice Regions. Remote Sensing, 2017, 9, 551.	4.0	19
51	PCB RF probe landing pads for multilayer deembedding. , 2017, , .		3
52	Dual-mode-resonator-based pseudo-elliptic filters with tunable response. , 2016, , .		2
53	Dual-mode-resonator-based pseudo-elliptic filters with tunable response. , 2016, , .		0
54	Passive RFID Sensor Tag Concept and Prototype Exploiting a Full Control of Amplitude and Phase of the Tag Signal. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4752-4762.	4.6	20

#	ARTICLE	IF	CITATIONS
55	Multi-decade GaN feedback power amplifiers in common-source and cascode topology. , 2016, , .		3
56	Triple mode dielectric-loaded cavity band pass filter. , 2016, , .		4
57	Statistical analysis of the power delay profile of a SIMO UHF backscatter RFID channel in an engine test bed. , 2016, , .		0
58	SDR based RFID reader for passive tag localization using phase difference of arrival techniques. , 2016, , .		14
59	Design of PCB RF probe landing pads for measurements up to 90 GHz. , 2016, , .		3
60	Sensor add-on for batteryless UHF RFID tags enabling a low cost IoT infrastructure. , 2016, , .		5
61	SIMO UHF RFID reader using sensor fusion for tag localization in a selected environment. Elektrotechnik Und Informationstechnik, 2016, 133, 183-190.	1.1	3
62	Fully reconfigurable filter based on a microstrip patch resonator with low-voltage driving. , 2016, , .		1
63	A TE<sub>111</sub> dual-mode monoblock dielectric resonator filter. , 2016, , .		1
64	HF/UHF dual band RFID transponders for an information-driven public transportation system. Elektrotechnik Und Informationstechnik, 2016, 133, 163-175.	1.1	7
65	EMC performance measurements for professional wireless microphone systems. Elektrotechnik Und Informationstechnik, 2016, 133, 32-38.	1.1	0
66	Non-trimmable LC oscillator for all CMOS frequency control. , 2015, , .		7
67	Global Calibration of SARAL/AltiKa Using Multi-Mission Sea Surface Height Crossovers. Marine Geodesy, 2015, 38, 206-218.	2.0	15
68	SIMO RFID system performance in an engine test bed. , 2015, , .		2
69	Design and Multiphysics Analysis of Direct and Cross-Coupled SIW Combine Filters Using Electric and Magnetic Couplings. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4341-4354.	4.6	47
70	A mm-Wave RFID system based on the EPC-Gen2 protocol. , 2015, , .		0
71	Concept for a security aware automatic fare collection system using HF/UHF dual band RFID transponders. , 2015, , .		8
72	Equivalent load impedance of pulse width modulation excited band pass filters. International Journal of RF and Microwave Computer-Aided Engineering, 2015, 25, 164-172.	1.2	0

#	ARTICLE	IF	CITATIONS
73	RF voltage limiters for passive differential UHF RFID front-ends in a 40 nm CMOS technology. , 2015, , .		5
74	Predistortion of Digital RF PWM Signals Considering Conditional Memory. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 2342-2350.	5.4	7
75	A secure miniaturized wireless sensor node for a smart home demonstrator. , 2015, , .		5
76	Potential of SARAL/AltiKa for Inland Water Applications. Marine Geodesy, 2015, 38, 626-643.	2.0	36
77	Measurement based indoor SIMO RFID simulator for tag positioning. , 2015, , .		5
78	Multi-Mission Cross-Calibration of Satellite Altimeters: Constructing a Long-Term Data Record for Global and Regional Sea Level Change Studies. Remote Sensing, 2014, 6, 2255-2281.	4.0	95
79	Dual-polarized antenna set based on skewed elliptic dipoles for UWB handheld applications. , 2014, , .		0
80	Measurements and analysis of MM-Wave RFID channels. , 2014, , .		0
81	A novel 3D packaging concept for RF powered sensor grains. , 2014, , .		14
82	A passive RFID sensor tag antenna transducer. , 2014, , .		8
83	A source modulated amplifier in GaN designed for baseband PWM and direct filter connection. , 2014, , .		0
84	A silver inkjet printed ferrite NFC antenna. , 2014, , .		19
85	Space and satellite technology. Elektrotechnik Und Informationstechnik, 2014, 131, 129-129.	1.1	0
86	A miniaturized dual band RFID tag. , 2014, , .		8
87	An on-chip capacitive coupled RFID tag. , 2014, , .		8
88	A common drain parallel amplifier in GaN using baseband PWM and direct filter connection for efficiency enhancement. , 2014, , .		1
89	Reduction of Aliasing Effects of RF PWM Modulated Signals by Cross Point Estimation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 3184-3192.	5.4	19
90	DC to 6.5 GHz highly linear low-noise AlGaN/GaN traveling wave amplifier with diode predistortion. , 2014, , .		5

#	ARTICLE	IF	CITATIONS
91	Phase Dependent Distortion in Direct Conversion Transmitters. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3219-3227.	4.6	2
92	Global Calibration of Jason-2 by Multi-Mission Crossover Analysis. Marine Geodesy, 2010, 33, 150-161.	2.0	30