

JÃ¼rgen Hasch

List of Publications by Year in descending order

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55
papers

2,143
citations

566801

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610482

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all docs

55
docs citations

55
times ranked

1720
citing authors

#	ARTICLE	IF	CITATIONS
1	Millimeter-Wave Technology for Automotive Radar Sensors in the 77 GHz Frequency Band. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 845-860.	2.9	1,020
2	Automotive Radar â€” From First Efforts to Future Systems. IEEE Journal of Microwaves, 2021, 1, 135-148.	4.9	236
3	A Fundamental Frequency 120-GHz SiGe BiCMOS Distance Sensor With Integrated Antenna. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 795-812.	2.9	101
4	A Study of SiGe HBT Signal Sources in the 220â€”330-GHz Range. IEEE Journal of Solid-State Circuits, 2013, 48, 2011-2021.	3.5	94
5	Driving towards 2020: Automotive radar technology trends. , 2015, , .		64
6	A Novel Millimeter-Wave Dual-Fed Phased Array for Beam Steering. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3140-3147.	2.9	54
7	A 234â€”261-GHz 55-nm SiGe BiCMOS Signal Source with 5.4â€”7.2 dBm Output Power, 1.3% DC-to-RF Efficiency, and 1-GHz Divided-Down Output. IEEE Journal of Solid-State Circuits, 2016, 51, 2054-2065.	3.5	51
8	A Cooperative MIMO Radar Network Using Highly Integrated FMCW Radar Sensors. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1355-1366.	2.9	43
9	Compact Topside Millimeter-Wave Waveguide-to-Microstrip Transitions. IEEE Microwave and Wireless Components Letters, 2013, 23, 641-643.	2.0	38
10	An Integrated 122-GHz Antenna Array With Wire Bond Compensation for SMT Radar Sensors. IEEE Transactions on Antennas and Propagation, 2013, 61, 5976-5983.	3.1	37
11	'Spectrum': Spectral Analysis in Python. Journal of Open Source Software, 2017, 2, 348.	2.0	25
12	MIMO-OFDM Radar Using a Linear Frequency Modulated Carrier to Reduce Sampling Requirements. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3511-3520.	2.9	22
13	An Integrated Stepped-Carrier OFDM MIMO Radar Utilizing a Novel Fast Frequency Step Generator for Automotive Applications. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4559-4569.	2.9	21
14	OFDM-Based Radar Network Providing Phase Coherent DOA Estimation. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 325-336.	2.9	21
15	Feasibility of automotive radar at frequencies beyond 100Â GHz. International Journal of Microwave and Wireless Technologies, 2013, 5, 49-54.	1.5	19
16	A Fundamental Frequency 143-152 GHz Radar Transceiver with Built-In Calibration and Self-Test. , 2012, , .		18
17	A low-cost miniature 120GHz SiP FMCW/CW radar sensor with software linearization. , 2013, , .		17
18	Performance degradation in cooperative radar sensor systems due to Uncorrelated Phase Noise. , 2014, , .		17

#	ARTICLE	IF	CITATIONS
19	Contour recognition with a cooperative distributed radar sensor network. , 2015, , .		16
20	Analysis of multipath and DOA detection using a fully polarimetric automotive radar. , 2017, , .		16
21	Real-Time Macro Gesture Recognition Using Efficient Empirical Feature Extraction With Millimeter-Wave Technology. IEEE Sensors Journal, 2021, 21, 15161-15170.	2.4	16
22	Calibration of a fully polarimetric 8Ä–8 mimo fmcw radar system at 77 ghz. , 2017, , .		14
23	155 GHz FMCW and Stepped-Frequency Carrier OFDM Radar Sensor Transceiver IC Featuring a PLL With <30 ns Settling Time and 40 fs rms Jitter. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4908-4924.	2.9	14
24	Ultralow-Power Radar Sensors for Ambient Sensing in the $\{V\}$ -Band. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5401-5410.	2.9	13
25	Analysis of multipath and DOA detection using a fully polarimetric automotive radar. International Journal of Microwave and Wireless Technologies, 2018, 10, 570-577.	1.5	13
26	Coherent Multistatic MIMO Radar Networks Based on Repeater Tags. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3908-3916.	2.9	13
27	Miniaturized 122 GHz short range radar sensor with antenna-in-package (AiP) and dielectric lens. , 2014, , .		12
28	Design of Low-Power Active Tags for Operation With 77Ä–81-GHz FMCW Radar. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5377-5388.	2.9	12
29	Polarimetric RCS Measurements of Selected Two-Wheeled Vehicles for Automotive Radar. , 2017, , .		12
30	On Hardware Implementations of Stepped-Carrier OFDM Radars. , 2018, , .		11
31	A 77-GHz active millimeter-wave reflector for FMCW radar. , 2017, , .		10
32	Radar-Based Robust People Tracking and Consumer Applications. IEEE Sensors Journal, 2022, 22, 3726-3735.	2.4	10
33	Classification of objects in polarimetric radar images using CNNs at 77 GHz. , 2017, , .		9
34	FMCW ramp non-linearity effects and measurement technique for cooperative radar. , 2015, , .		8
35	122 GHz single-chip dual-channel SMD radar sensor with integrated antennas for distance and angle measurements. , 2014, , .		7
36	Synthetic Radar Dataset Generator for Macro-Gesture Recognition. IEEE Access, 2021, 9, 76576-76584.	2.6	6

#	ARTICLE	IF	CITATIONS
37	A W-band active millimeter-wave tag IC with wake-up function. , 2017, , .		5
38	122 GHz single-chip dual-channel SMD radar sensor with integrated antennas for distance and angle measurements. , 2014, , .		4
39	A 240GHz Synthesizer in 55nm SiGe BiCMOS. , 2015, , .		4
40	Synthetization of Virtual Transmit Antennas for MIMO OFDM Radar by Space-Time Coding. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 1964-1971.	2.6	4
41	IQ-Transmitter Digital Predistortion for an OFDM Radar. , 2022, , .		4
42	Characteristics of a corrugated tapered slot antenna with dielectric rod and metallic reflector. , 2008, , .		3
43	Multiplexing of OFDM-Based Radar Networks. , 2021, , .		3
44	122 GHz single-chip dual-channel SMD radar sensor with on-chip antennas for distance and angle measurements. International Journal of Microwave and Wireless Technologies, 2015, 7, 407-414.	1.5	2
45	Multi-User Macro Gesture Recognition using mmWave Technology. , 2022, , .		2
46	Microstrip coupler circuits on micromachined silicon substrates for F-Band applications. , 2007, , .		1
47	Tapered slot antenna with dielectric rod and metallic reflector. , 2008, , .		1
48	EMI system model for a gearbox electronic control unit. , 2008, , .		0
49	FMCW ramp non-linearity effects and measurement technique for cooperative radar. , 2015, , .		0
50	Improvement of dynamic range for arbitrary radar systems using antenna polarization modulation. , 2017, , .		0
51	Improvement of dynamic range for arbitrary radar systems using antenna polarization modulation. , 2017, , .		0
52	Cross-Polarized Planar Reflector for Polarimetric Radar Calibration at 77 GHz. , 2018, , .		0
53	Dual-Channel Single Sideband Transmitter in 45 nm CMOS SOI for a 70 GHz OFDM Radar. , 2018, , .		0
54	Dual-Channel Single Sideband Transmitter in 45 Nm CMOS SOI for a 70 GHz OFDM Radar. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Ghost-Target Suppression in Coherent Radar Networks. , 2022, , .		0