

Rob Maaskant

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Comparison of CBFM-Enhanced Iterative Methods for MoM-Based Finite Antenna Array Analysis. IEEE Transactions on Antennas and Propagation, 2022, 70, 3538-3548.	5.1	5
2	A mm-Wave Phased-Array Fed Torus Reflector Antenna With $\hat{\Delta}\pm 30\hat{\Delta}$ ° Scan Range for Massive-MIMO Base-Station Applications. IEEE Transactions on Antennas and Propagation, 2022, 70, 3398-3410.	5.1	8
3	Characterization and Calibration of the Hybrid OTA Chamber Using a Field Scanner. , 2022, , .		0
4	The Hybrid Chamber for OTA measurements: Plane Wave Spectrum Quality Vs. Dynamic Range Trade-off. , 2022, , .		0
5	Sparse Array Synthesis Including Mutual Coupling for MU-MIMO Average Capacity Maximization. IEEE Transactions on Antennas and Propagation, 2022, 70, 6617-6626.	5.1	7
6	Hybrid OTA Chamber for Multidirectional Testing of Wireless Devices: Plane Wave Spectrum Generator Design and Experimental Demonstration. IEEE Transactions on Antennas and Propagation, 2022, 70, 10974-10987.	5.1	7
7	mmWave Metal Bowtie Slot Array Element Integrating Power Amplifier MMIC via On-Chip Probe to Enhance Efficiency and Bandwidth. IEEE Transactions on Antennas and Propagation, 2022, 70, 8110-8121.	5.1	5
8	Uniform Linear Arrays With Optimized Inter-Element Spacing for LOS Massive MIMO. IEEE Communications Letters, 2021, 25, 613-616.	4.1	6
9	Fast Characterization of Mutually Coupled Array Antennas Using Isolated Antenna Far-Field Data. IEEE Transactions on Antennas and Propagation, 2021, 69, 206-218.	5.1	5
10	Co-Design and Validation Approach for Beam-Steerable Phased Arrays of Active Antenna Elements With Integrated Power Amplifiers. IEEE Transactions on Antennas and Propagation, 2021, 69, 7497-7507.	5.1	10
11	Cell Partitioning Antenna System Performance in Multi-User Scenarios for mmWave Communications. IEEE Access, 2021, 9, 127141-127149.	4.2	1
12	Performance Analysis of an Integrated Multi-Channel Power Amplifier Incorporating an IC-to-Waveguide Transition. , 2021, , .		2
13	Silicon-Based IC-Waveguide Integration for Compact and High-Efficiency mm-Wave Spatial Power Combiners. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 1115-1121.	2.5	3
14	A Cavity-Backed Patch Antenna With Distributed Multi-Port Feeding, Enabling Efficient Integration With Doherty Power Amplifier and Band-Pass Filter. IEEE Transactions on Antennas and Propagation, 2021, 69, 4412-4422.	5.1	10
15	A New Hybrid Chamber for Generating a Spectrum of Oblique Incident Plane Waves at the DUT. IEEE Transactions on Antennas and Propagation, 2021, 69, 6806-6815.	5.1	8
16	Sparse Automotive MIMO Radar for Super-Resolution Single Snapshot DOA Estimation With Mutual Coupling. IEEE Access, 2021, 9, 146822-146829.	4.2	9
17	A Dual-Fed PIFA Antenna Element With Nonsymmetric Impedance Matrix for High-Efficiency Doherty Transmitters: Integrated Design and OTA-Characterization. IEEE Transactions on Antennas and Propagation, 2020, 68, 21-32.	5.1	14
18	Array Configuration Effect on the Spatial Correlation of MU-MIMO Channels in NLoS Environments. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	High Power mm-Wave Spatial Power Combiner Employing On-Chip Isolation Resistors. , 2020, , .		1
20	Semi-Analytical Model of the Rician K -Factor. Radio Science, 2020, 55, e2020RS007099.	1.6	5
21	Antenna Mutual Coupling Effects in Highly Integrated Transmitter Arrays. , 2020, , .		6
22	A Wideband and Low-Loss Spatial Power Combining Module for mm-Wave High-Power Amplifiers. IEEE Access, 2020, 8, 194858-194867.	4.2	2
23	Multi-Panel Sparse Base Station Design With Physical Antenna Effects in Massive MU-MIMO. IEEE Transactions on Vehicular Technology, 2020, 69, 6500-6510.	6.3	13
24	On The Outage Performance Of Line-Of-Sight Massive MIMO with a Fixed-Length Uniform Linear Sparse Array. , 2019, , .		1
25	High-Efficiency and Wideband Aperiodic Array of Uniformly Excited Slotted Waveguide Antennas Designed Through Compressive Sensing. IEEE Transactions on Antennas and Propagation, 2019, 67, 2992-2999.	5.1	22
26	A Directly Matched PA-Integrated K -Band Antenna for Efficient mm-Wave High-Power Generation. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 2389-2393.	4.0	17
27	Characterization and Performance of an Ultra-Wideband Wide-Coverage Multimode MIMO Antenna. IEEE Transactions on Antennas and Propagation, 2019, 67, 5812-5823.	5.1	5
28	A 1-D Steerable Beam Slotted Waveguide Antenna Employing Non-Conventional Aperiodic Array Architecture for mm-wave Line-Of-Sight MIMO. , 2019, , .		5
29	N-Way Spatial Power Combining in SIW for High Power Generation MMICs – Scalability Bounds. , 2019, , .		0
30	Effect of Antenna Array Element Separation on Capacity of MIMO Systems Including Mutual Coupling. , 2019, , .		3
31	Performance Comparison of Silicon Substrates for IC-Waveguide Integration based on a Contactless Transition at mm-Wave frequencies. , 2019, , .		1
32	Efficient Millimeter-Wave High Power Generation with Spatial Power-Combined Feeding Element. , 2018, , .		2
33	An E-Band Silicon-IC-to-Waveguide Contactless Transition Incorporating a Low-Loss Spatial Power Combiner. , 2018, , .		3
34	Capacity Gains of $(3 \times 3) \times (3 \times 3)$ MIMO Fixed Links with Planar Aperiodic Sparse Arrays in Pure-LOS Channels. , 2018, , .		0
35	Per-Antenna Power Distribution of a Zero-Forcing Beamformed ULA in Pure LOS MU-MIMO. IEEE Communications Letters, 2018, 22, 2515-2518.	4.1	11
36	A Ka-Band Active Integrated Antenna for 5G Applications: Initial Design Flow. , 2018, , .		9

#	ARTICLE	IF	CITATIONS
37	Wideband mm-Wave Transition Between a Coupled Microstrip Line Array and SIW for High-Power Generation MMICs. IEEE Microwave and Wireless Components Letters, 2018, 28, 867-869.	3.2	12
38	Aperiodic Switched Array for Line-of-Sight MIMO Backhauling. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1712-1716.	4.0	3
39	A Wideband Contactless and Bondwire-Free MMIC to Waveguide Transition. IEEE Microwave and Wireless Components Letters, 2017, 27, 437-439.	3.2	35
40	Element pattern prediction in mutually-coupled arrays through isolated antenna characterization. , 2017, , .		3
41	Aperiodic isophoric slotted waveguide antenna for point-to-point communications at Ka-band. , 2017, , .		0
42	Toward wide-band low-loss gap-waveguide-integrated grid amplifiers. , 2017, , .		2
43	The CBFM-Enhanced Jacobi Method for Efficient Finite Antenna Array Analysis. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2700-2703.	4.0	16
44	Accelerating the CBFM-enhanced jacobi method. , 2017, , .		0
45	Synthesis of Maximally Sparse Arrays Using Compressive Sensing and Full-Wave Analysis for Global Earth Coverage Applications. IEEE Transactions on Antennas and Propagation, 2016, 64, 4872-4877.	5.1	35
46	Domain-Decomposition Approach to Krylov Subspace Iteration. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1414-1417.	4.0	6
47	Design of Maximally Sparse Antenna Arrays in the Presence of Mutual Coupling. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 159-162.	4.0	40
48	Efficient Analysis of Large Aperiodic Antenna Arrays Using the Domain Green's Function Method. IEEE Transactions on Antennas and Propagation, 2014, 62, 1579-1588.	5.1	44
49	Efficient Prediction of Array Element Patterns Using Physics-Based Expansions and a Single Far-Field Measurement. IEEE Transactions on Antennas and Propagation, 2012, 60, 3614-3621.	5.1	22
50	Analysis of Large Microstrip-Fed Tapered Slot Antenna Arrays by Combining Electrodynamical and Quasi-Static Field Models. IEEE Transactions on Antennas and Propagation, 2011, 59, 1798-1807.	5.1	30
51	Fast Analysis of Large Antenna Arrays Using the Characteristic Basis Function Method and the Adaptive Cross Approximation Algorithm. IEEE Transactions on Antennas and Propagation, 2008, 56, 3440-3451.	5.1	175