

# Andreas Ståhr

## List of Publications by Year in descending order

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96  
papers

2,740  
citations

516710

16  
h-index

315739

38  
g-index

99  
all docs

99  
docs citations

99  
times ranked

3061  
citing authors

#	ARTICLE	IF	CITATIONS
1	The 2017 terahertz science and technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 043001.	2.8	1,160
2	Photonics for microwave measurements. <i>Laser and Photonics Reviews</i> , 2016, 10, 711-734.	8.7	261
3	Millimeter-Wave Photonic Components for Broadband Wireless Systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010, 58, 3071-3082.	4.6	119
4	Radio-over-fiber transport for the support of wireless broadband services [Invited]. <i>Journal of Optical Networking</i> , 2009, 8, 156.	2.5	105
5	Triple transit region photodiodes (TTR-PDs) providing high millimeter wave output power. <i>Optics Express</i> , 2014, 22, 7550.	3.4	104
6	60-GHz Photonic Millimeter-Wave Link for Short- to Medium-Range Wireless Transmission Up to 12.5 Gb/s. <i>Journal of Lightwave Technology</i> , 2008, 26, 2424-2429.	4.6	97
7	60 GHz radio-over-fiber technologies for broadband wireless services [Invited]. <i>Journal of Optical Networking</i> , 2009, 8, 471.	2.5	97
8	Spectral efficient 64-QAM-OFDM terahertz communication link. <i>Optics Express</i> , 2017, 25, 19360.	3.4	63
9	Plasmonic photodetector with terahertz electrical bandwidth. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	40
10	InP-Based THz Beam Steering Leaky-Wave Antenna. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021, 11, 218-230.	3.1	38
11	Photonic millimeter-wave generation and its applications in high data rate wireless access. , 2010, , .		31
12	Optical heterodyne millimeter-wave generation using 1.55- $\mu$ m traveling-wave photodetectors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2001, 49, 1926-1933.	4.6	28
13	Integrated 460 GHz photonic transmitter module. <i>Electronics Letters</i> , 2001, 37, 1347.	1.0	26
14	High-speed picosecond pulse response GaNAsSb p-i-n photodetectors grown by rf plasma-assisted nitrogen molecular beam epitaxy. <i>Applied Physics Letters</i> , 2007, 90, 183515.	3.3	24
15	Mobile THz communications using photonic assisted beam steering leaky-wave antennas. <i>Optics Express</i> , 2021, 29, 21629.	3.4	23
16	Single Radio-Over-Fiber Link and RF Chain-Based 60 GHz Multi-Beam Transmission. <i>Journal of Lightwave Technology</i> , 2019, 37, 1974-1980.	4.6	20
17	Robust 71-76 GHz Radio-over-Fiber Wireless Link with High-Dynamic Range Photonic Assisted Transmitter and Laser Phase-Noise Insensitive SBD Receiver. , 2014, , .		19
18	Thermopile antennas for detection of millimeter waves. <i>Applied Physics Letters</i> , 2010, 96, 133507.	3.3	17

#	ARTICLE	IF	CITATIONS
19	Coherent Radio-over-Fiber THz Communication Link for High Data-Rate 59 Gbit/s 64-QAM-OFDM and Real-Time HDTV Transmission. , 2017, , .		17
20	Compact Modules for Wireless Communication Systems in the E-Band (71&#x2013;76&#x2212;GHz). Journal of Infrared, Millimeter, and Terahertz Waves, 2013, 34, 251-266.	2.2	16
21	E-Band 76-GHz Coherent RoF Backhaul Link Using an Integrated Photonic Mixer. Journal of Lightwave Technology, 2016, 34, 4744-4750.	4.6	16
22	Pushing the boundaries. IEEE Microwave Magazine, 2009, 10, 106-115.	0.8	15
23	Planar 0.05&#x2013;1.1 THz Laminate-Based Transition Designs for Integrating High-Frequency Photodiodes With Rectangular Waveguides. Journal of Lightwave Technology, 2019, 37, 1037-1044.	4.6	15
24	High responsivity GaNAsSb p-i-n photodetectors at 13&#x2212;µm grown by radio-frequency nitrogen plasma-assisted molecular beam epitaxy. Optics Express, 2008, 16, 7720.	3.4	14
25	Public Field Trial of a Multi-RAT (60 GHz 5G/ LTE/WiFi) Mobile Network. IEEE Wireless Communications, 2018, 25, 38-46.	9.0	14
26	Optoelectronic K&#x2013;Band Oscillator With Gigahertz Tuning Range and Low Phase Noise. IEEE Photonics Technology Letters, 2010, 22, 1497-1499.	2.5	13
27	Substrate-Integrated Waveguide PCB Leaky-Wave Antenna Design Providing Multiple Steerable Beams in the V-Band. Electronics (Switzerland), 2017, 6, 107.	3.1	13
28	Millimetre wave signal generation using resonant tunneling diodes NLTL&#x2013;resonators. Microwave and Optical Technology Letters, 2007, 49, 2907-2909.	1.4	12
29	71&#x2013;76&#x2013;GHz grounded CPW to WR-12 transition for quasi-hermetic RoF wireless transmitter. Electronics Letters, 2012, 48, 506.	1.0	12
30	Dual-Frequency Laser Phase Locked at 100 GHz. Journal of Lightwave Technology, 2014, 32, 3824-3830.	4.6	12
31	Design of PCB leaky-wave antennas for Wide angle beam steering. , 2018, , .		12
32	Ultra-low phase-noise photonic terahertz imaging system based on two-tone square-law detection. Optics Express, 2020, 28, 29631.	3.4	12
33	Novel 50&#x2013;70 GHz compact PCB leaky-wave antenna with high broadside efficiency and low return loss. , 2016, , .		11
34	300 GHz Photonic Self-Mixing Imaging-System with vertical illuminated Triple-Transit-Region Photodiode Terahertz Emitters. , 2019, , .		11
35	10 Gbit/s Wireless Transmission Using Millimeter-Wave over Optical Fiber Systems. , 2011, , .		11
36	Novel E-Band (71&#x2013;76 GHz) photodiode module featuring a hermetic grounded-coplanar-waveguide-to-rectangular-waveguide transition. , 2011, , .		10

#	ARTICLE	IF	CITATIONS
37	InP-Based Waveguide Triple Transit Region Photodiodes for Hybrid Integration with Passive Optical Silica Waveguides. <i>Photonics</i> , 2015, 2, 1152-1163.	2.0	9
38	Compact E-Band (71–86 GHz) bias-tee module for external biasing of millimeter wave photodiodes. , 2015, , .		9
39	Compact triple transit region photodiode module with WR-12 rectangular waveguide output. , 2015, , .		9
40	High data rate 6 Gbit/s steerable multibeam 60 GHz antennas for 5G hot-spot use cases. , 2017, , .		9
41	Novel 3-D Multilayer Terahertz Packaging Technology for Integrating Photodiodes Arrays and Rectangular Waveguide-Power Combiners. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020, 68, 4611-4619.	4.6	9
42	All Photonic Radar System based on Laser Frequency Sweeping and Leaky-Wave Antennas. , 2018, , .		8
43	Compact Folded Leaky-Wave Antenna Radiating a Fixed Beam at Broadside for 5G mm-Wave Applications. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2022, 21, 292-296.	4.0	8
44	Waveguide and antenna coupled travelling-wave 1.55- $\mu$ m photodetectors for optical (sub)millimeter-wave generation. , 2004, 5466, 202.		7
45	Guest Editorial Special Issue on Microwave Photonics. <i>Journal of Lightwave Technology</i> , 2008, 26, 2336-2337.	4.6	7
46	14-GHz GaNAsSb Unitraveling-Carrier 1.3- $\mu$ m Photodetectors Grown by RF Plasma-Assisted Nitrogen Molecular Beam Epitaxy. <i>IEEE Electron Device Letters</i> , 2009, 30, 590-592.	3.9	7
47	Integrated photonic 71–76 GHz transmitter module employing high linearity double mushroom-type 1.55 $\mu$ m waveguide photodiodes. , 2012, , .		7
48	Double mushroom 1.55- $\mu$ m waveguide photodetectors for integrated E-band (60-90 GHz) wireless transmitter modules. , 2012, , .		7
49	Impact of WDM Channel Spacing on Millimeter-wave Wireless Access using Wireless Coherent Radio-over-Fiber (CRoF) channels. , 2015, , .		7
50	Opto-electronic dual-loop 50 GHz oscillator with wide tunability and low phase noise. , 2010, , .		6
51	Planar bias-tee circuit using single coupled-line approach for 71–76 GHz photonic transmitters. , 2015, , .		6
52	10 GHz channel spacing ultra-dense WDM networks transparently extended by mm-wave coherent RoF links. , 2015, , .		6
53	Metallic 3D Printed Rectangular Waveguides (WR3) for Rapid Prototyping of THz Packages. , 2018, , .		6
54	Highly-compact fibre-optic package for 30–300GHz wireless transmitter modules. , 2008, , .		5

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55	Integration platform for 72-GHz photodiode-based wireless transmitter. Proceedings of SPIE, 2012, , .	0.8	5
56	Radio-over-fiber photonic wireless bridge in the W-Band. , 2013, , .		5
57	Ultrafast Surface Plasmon III&#x2014;V Photodetectors Based on Nanomonopoles. Journal of Lightwave Technology, 2016, 34, 4682-4687.	4.6	5
58	THz beam forming and beam switching using lens-assisted quasi-optical THz transmitter. , 2017, , .		5
59	Radio-over-Fiber-supported Millimeter-wave Multiuser Transmission with Low-Complexity Antenna Units. , 2018, , .		5
60	Near Infrared Diode Laser THz Systems. Advances in Radio Science, 0, 16, 167-175.	0.7	5
61	Terahertz Band Data Communications using Dielectric Rod Waveguide. , 2022, , .		5
62	Novel Quasi-Hermetic Photodiode Module Featuring an E-Band Rectangular Waveguide (WR-12) Output. IEEE Photonics Technology Letters, 2013, 25, 217-219.	2.5	4
63	Planar E-Band (71-76 GHz) Platforms for Integrating Millimeter Wave Photodiodes with WR-12 Waveguides. Periodica Polytechnica Electrical Engineering and Computer Science, 2016, 60, 38-43.	1.0	4
64	Lens-assisted quasi-optical THz transmitter employing antenna-integrated triple transit region photodiodes. , 2017, , .		4
65	3D Radar Localization via Photonic Chirp Leaky-Wave Antenna Beam Scanning. , 2019, , .		4
66	Simultaneous User Localization and Identification Using Leaky-Wave Antennas and Backscattering Communications. IEEE Access, 2022, 10, 37097-37108.	4.2	4
67	Wideband photonic millimeter-wave synthesizer using a high-power pin waveguide photodiode. , 2007, , .		3
68	Planar 71&#x2013;76 GHz laminate integration platform for connecting millimeter wave photodiodes to WR-12 waveguides. , 2015, , .		3
69	Radio-over-fiber-supported 60GHz multiuser transmission using leaky wave antenna. , 2017, , .		3
70	2D mm-Wave Beam Steering via Optical True-Time Delay and Leaky-Wave Antennas. , 2019, , .		3
71	THz photomixers: an overview. , 2006, , .		2
72	Photonic Oscillators for THz Signal Generation. , 0, , 85-110.		2

#	ARTICLE	IF	CITATIONS
73	Transparent wireless access to optical WDM networks using a novel coherent radio-over-fiber (CRoF) approach. , 2014, , .		2
74	Field trial of a hybrid fiber wireless (HFW) bridge for 2.5 Gbit/s GPON. , 2017, , .		2
75	Low-latency GbE 60 GHz TDD transceiver using SiGe-RFICs and PCB leaky-wave antennas. , 2018, , .		2
76	Polarization Diversity Photoreceiver Integration on 26 GHz PCB Leaky-Wave Antenna for Photonic Beam Steering Transmitter. , 2019, , .		2
77	Applications for Optical Components in THz Systems (invited paper). , 2017, , .		2
78	Wireless Extension for 2.5 Gbit/s GPON. , 2018, , .		2
79	Photonic Millimeter-wave and Terahertz Source Technologies (invited paper). , 2006, , .		1
80	Ultra-broadband and low phase noise photonic millimeter-wave generation. , 2008, , .		1
81	Ultra-wideband radio-over-fiber techniques and networks. , 2010, , .		1
82	High data rate radio over fiber technologies. , 2011, , .		1
83	Substrate integrated waveguide antenna for 60 GHz Radio-over-Fiber transmitter. , 2013, , .		1
84	Integrated Microwave-Photonics (iMWP) for Mobile Terahertz Systems. , 2018, , .		1
85	Endfire Transition from Coplanar Waveguide-to-WR3 Rectangular Waveguide for Monolithic Integration with THz Photodiodes. , 2019, , .		1
86	Side-illuminated fully ballistic p-i-n diode-based photomixer at 1550 nm. , 2020, , .		1
87	Heterogeneous wireless/wireline optical access networks with the R-EAT as backend component. , 2004, 5466, 27.		0
88	The European IPHOBAC project: Millimeter-wave photonic components and technologies for communications, radar and instrumentation. , 2008, , .		0
89	Integrated E-band photoreceiver module for wideband (71â€“76GHz) wireless transmission. , 2012, , .		0
90	Surface plasmon nanoantenna-based photodetector with Terahertz electrical bandwidth. , 2014, , .		0

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91	Guest Editorial on Special Issue on Microwave Photonics. Journal of Lightwave Technology, 2016, 34, 4629-4630.	4.6	0
92	Photonic-Assisted mm-Wave and THz Wireless Transmission towards 100 Gbit/s Data Rate. Frequenz, 2017, 71, 485-497.	0.9	0
93	Plasmonic photodetector with THz electrical bandwidth. , 2017, , .		0
94	Terahertz near field coupling for integrating III-V photodiodes on silicon. , 2018, , .		0
95	Continuous Wave Multimode Amplitude THz Spectroscopy. , 2018, , .		0
96	Fully-Hermetic 71-86 GHz WR12 Coherent Photonic Mixer Providing an RF Output Power up to +15 dBm. , 2019, , .		0