

# Zorana Popovic

## List of Publications by Year in descending order

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142  
papers

3,173  
citations

293460

24  
h-index

223390

49  
g-index

144  
all docs

144  
docs citations

144  
times ranked

2853  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous Broadband GaAs and GaN MMIC Phase Shifters. IEEE Microwave and Wireless Components Letters, 2022, 32, 56-59.	2.0	9
2	Correlation Radiometry for Subcutaneous Temperature Measurements. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2022, 6, 230-237.	2.3	7
3	Active and Passive Components for Broadband Transmit Phased Arrays: Broadband Transmit Front-End Components. IEEE Microwave Magazine, 2022, 23, 56-74.	0.7	3
4	Broadband RF Energy-Harvesting Arrays. Proceedings of the IEEE, 2022, 110, 74-88.	16.4	11
5	GaN MMIC RF Switches for In-Band Full-Duplex Phased Array Calibration. , 2022, , .		1
6	A W-Band GaN MMIC Continuous 90° Reflective Phase Shifter. , 2022, , .		4
7	Power Amplifiers With Frequency-Selective Matching Networks. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 697-708.	2.9	8
8	0.01-22-GHz Feedback-Stabilized Single-Supply GaAs Cascode Distributed Amplifiers. IEEE Microwave and Wireless Components Letters, 2021, 31, 1291-1294.	2.0	5
9	Microstrip Ferrite Circulator Design With Control of Magnetization Distribution. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1217-1226.	2.9	13
10	Analysis of Process Variations in <i>W</i> -Band GaN MMIC PAs Using Nonparametric Statistics. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 2304-2318.	2.9	3
11	Gaussian Pulse Characterization of RF Power Amplifiers. IEEE Microwave and Wireless Components Letters, 2021, 31, 417-420.	2.0	4
12	Broadband Small-Aperture High-Gain Ridge Horn Antenna Array Element. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 708-712.	2.4	6
13	Tunable Impedance-Matching Filters. IEEE Microwave and Wireless Components Letters, 2021, 31, 993-996.	2.0	3
14	A Novel 3-Way Dual-Band Doherty Power Amplifier for Enhanced Concurrent Operation. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4041-4058.	2.9	14
15	A Microwave Quantum-Defined Millivolt Source. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 5404-5416.	2.9	3
16	Broadband Diplexed Power Amplifier. IEEE Microwave and Wireless Components Letters, 2020, 30, 1073-1076.	2.0	12
17	Octave Bandwidth High-Performance Microstrip-to-Double-Ridge-Waveguide Transition. IEEE Microwave and Wireless Components Letters, 2020, 30, 637-640.	2.0	5
18	Power-Combined Rectenna Array for X-Band Wireless Power Transfer. , 2020, , .		6

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19	RF-Harvesting Tightly Coupled Rectenna Array Tee-Shirt With Greater Than Octave Bandwidth. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3908-3919.	2.9	45
20	Sensitivity and noise in THz electro-optic upconversion radiometers. Scientific Reports, 2020, 10, 9403.	1.6	3
21	Electromagnetic-Wave Fun Using Simple Take-Home Experiments [Education Corner]. IEEE Antennas and Propagation Magazine, 2020, 62, 100-106.	1.2	3
22	Efficiency and linearity enhancement of a two-stage X-band PA through simultaneous gate and drain supply modulation. IET Microwaves, Antennas and Propagation, 2020, 14, 1347-1354.	0.7	2
23	Metal-Embedded Chip Assembly Processing for Enhanced RF Circuit Performance. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3537-3546.	2.9	15
24	A Concurrent 2.2/3.9-GHz Dual-Band GaN Power Amplifier. , 2019, , .		5
25	A Three-Stage 18.5-24-GHz GaN-on-SiC 4 W 40% Efficient MMIC PA. IEEE Journal of Solid-State Circuits, 2019, 54, 2402-2410.	3.5	39
26	Linearization of a 500-W L-band GaN Doherty Power Amplifier by Dual-Pulse Trap Characterization. , 2019, , .		4
27	Dual Gate and Drain Supply Modulation of an X-Band PA. , 2019, , .		2
28	Dynamic Dual-Gate Bias Modulation for Linearization of a High-Efficiency Multistage PA. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2483-2494.	2.9	14
29	Novel Outphasing Power Amplifiers Designed With an Analytic Generalized Doherty-Chireix Continuum Theory. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 2935-2948.	3.5	35
30	Efficient X-Band Transmitter With Integrated GaN Power Amplifier and Supply Modulator. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1601-1614.	2.9	22
31	A Dual-Band Dual-Output Power Amplifier for Carrier Aggregation. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3134-3146.	2.9	31
32	A 6-12 GHz Reconfigurable Transformer-Based Outphasing Combiner in 250-nm GaAs. , 2019, , .		1
33	Non-Linear Diode Rectifier Analysis for Multi-Tone Wireless Power Harvesting. , 2019, , .		2
34	Excitation and RF Field Control of a Human-Size 10.5-T MRI System. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1184-1196.	2.9	5
35	An Octave Bandwidth RF Harvesting Tee-Shirt. , 2019, , .		5
36	Noninvasive Internal Body Temperature Tracking With Near-Field Microwave Radiometry. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2535-2545.	2.9	61

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37	V- and W-band Two-Way Waveguide Splitters Fabricated by Metal Additive Manufacturing. , 2018, , .		1
38	Efficient Multisignal 2â€“4-GHz Power Amplifier With Power Tracking. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5652-5663.	2.9	16
39	Design-Oriented Modelling of Microstrip Ferrite Circulators. , 2018, , .		8
40	Frequency Selective Ferrite Circulators with Quasi-Elliptic Transmission Response. , 2018, , .		9
41	A 4-W K-Band 40% PAE Three-Stage MMIC Power Amplifier. , 2018, , .		4
42	An Efficient Linearized Octave-Bandwidth Power Amplifier for Carrier Aggregation. , 2018, , .		5
43	Kilowatt-scale large air-gap multi-modular capacitive wireless power transfer system for electric vehicle charging. , 2018, , .		41
44	Harvesting of aircraft radar altimeter sidelobes for low-power sensors. , 2018, , .		5
45	Isotrap Pulsed \$IV\$ Characterization of GaN HEMTs for PA Design. IEEE Microwave and Wireless Components Letters, 2018, 28, 672-674.	2.0	10
46	Microwave Class-E Power Amplifiers: A Brief Review of Essential Concepts in High-Frequency Class-E PAs and Related Circuits. IEEE Microwave Magazine, 2018, 19, 54-66.	0.7	18
47	Design of ungrounded CPW GaN-on-Si MMICs. , 2018, , .		0
48	Design of ungrounded CPW GaN-on-Si MMICs. , 2018, , .		0
49	Bandwidth design of ferrite-based circulators. , 2018, , .		5
50	Class-E Rectifiers and Power Converters: The Operation of the Class-E Topology as a Power Amplifier and a Rectifier with Very High Conversion Efficiencies. IEEE Microwave Magazine, 2018, 19, 67-78.	0.7	9
51	Patch-Probe Excitation for Ultrahigh Magnetic Field Wide-Bore MRI. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2547-2557.	2.9	6
52	Efficient Programmable Pulse Shaping for \$X\$ -Band GaN MMIC Radar Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 881-891.	2.9	15
53	Multi-objective optimization of capacitive wireless power transfer systems for electric vehicle charging. , 2017, , .		21
54	High-performance large air-gap capacitive wireless power transfer system for electric vehicle charging. , 2017, , .		53

#	ARTICLE	IF	CITATIONS
55	Antenna probes for power reception from deep tissues for wearable microwave thermometry. , 2017, , .		3
56	A Prepulsing Technique for the Characterization of GaN Power Amplifiers With Dynamic Supply Under Controlled Thermal and Trapping States. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5046-5062.	2.9	27
57	Capacitive wireless powering for electric vehicles with near-field phased arrays. , 2017, , .		7
58	Near- and far-field wireless power transfer. , 2017, , .		15
59	Properties of 50â€“110-GHz Waveguide Components Fabricated by Metal Additive Manufacturing. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 5144-5153.	2.9	39
60	Optimal Definition of Class F for Realistic Transistor Models. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3585-3595.	2.9	15
61	Efficiency enhancement and linearization of GaN PAs using reduced-bandwidth supply modulation. , 2017, , .		9
62	Bandwidth-reduced supply modulation of a high-efficiency X-band GaN MMIC PA for multiple wideband signals. , 2017, , .		4
63	Microwave class-E power amplifiers. , 2017, , .		5
64	10.5-T MRI volume excitation using traveling-wave microstrip probes. , 2017, , .		0
65	RF energy harvester in the proximity of an aircraft radar altimeter. , 2016, , .		6
66	Monolithic multilevel GaN converter for envelope tracking in RF power amplifiers. , 2016, , .		19
67	A fully monolithically integrated 4.6 GHz DC-DC converter. , 2016, , .		4
68	Near-field capacitive wireless power transfer array with external field cancellation. , 2016, , .		31
69	Multi-frequency large-signal analysis using describing functions. , 2016, , .		0
70	Low-Profile Switched-Beam Antenna Backed by an Artificial Magnetic Conductor for Efficient Close-to-Metal Operation. IEEE Transactions on Antennas and Propagation, 2016, 64, 1307-1316.	3.1	4
71	A 1.4-GHz radiometer for internal body temperature measurements. , 2015, , .		14
72	Active baseband drain-supply terminal load-pull of an X-band GaN MMIC PA. , 2015, , .		2

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73	Load Modulation Measurements of X-Band Outphasing Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4119-4129.	2.9	10
74	Effective Constitutive Parameters of High-Temperature Superconducting Split-Ring Resonator Arrays. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-7.	1.1	9
75	Bow-tie rectenna arrays. , 2015, , .		11
76	X-band wireless power transfer with two-stage high-efficiency GaN PA/ rectifier. , 2015, , .		21
77	Two-stage high-efficiency X-Band GaN MMIC PA/ rectifier. , 2015, , .		13
78	Supply-Modulated Radar Transmitters With Amplitude-Modulated Pulses. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2953-2964.	2.9	9
79	Multi-Frequency Measurements for Supply Modulated Transmitters. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2931-2941.	2.9	13
80	X-band 10W MMIC high-gain power amplifier with up to 60% PAE. , 2014, , .		7
81	4W X-band high efficiency MMIC PA with output harmonic injection. , 2014, , .		0
82	X-band outphasing power amplifier with internal load modulation measurements. , 2014, , .		4
83	X-Band outphasing power amplifier with internal load modulation measurements. , 2014, , .		1
84	Low-power electronics for energy harvesting sensors. Wireless Power Transfer, 2014, 1, 35-43.	0.9	10
85	A Dual-Frequency Ultralow-Power Efficient 0.5-g Rectenna. IEEE Microwave Magazine, 2014, 15, 109-114.	0.7	62
86	Resonant Pulse-Shaping Power Supply for Radar Transmitters. IEEE Transactions on Power Electronics, 2014, 29, 707-718.	5.4	20
87	Toward wearable wireless thermometers for internal body temperature measurements. , 2014, 52, 118-125.		66
88	Sensing Depth of Microwave Radiation for Internal Body Temperature Measurement. IEEE Transactions on Antennas and Propagation, 2014, 62, 1293-1303.	3.1	24
89	Over-Moded Cavity for Multiple-Electronic-Device Wireless Charging. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1074-1079.	2.9	21
90	Scalable RF Energy Harvesting. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1046-1056.	2.9	121

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91	A harmonically-terminated two-gram low-power rectenna on a flexible substrate. , 2013, , .		7
92	G-Band Micro-Fabricated Frequency-Steered Arrays With $2^{\circ}$ /GHz Beam Steering. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 566-573.	2.0	22
93	Linearization of efficient harmonically-injected PAs. , 2013, , .		1
94	W-Band Micro-Fabricated Coaxially-Fed Frequency Scanned Slot Arrays. IEEE Transactions on Antennas and Propagation, 2013, 61, 2324-2328.	3.1	6
95	RFPAs supply modulator using wide-bandwidth linear amplifier with a GaN HEMT output stage. , 2013, , .		3
96	X-band MMIC GaN power amplifiers designed for high-efficiency supply-modulated transmitters. , 2013, , .		29
97	A 1.4 GHz MMIC Active Cold Noise Source. , 2013, , .		7
98	Low-Power Far-Field Wireless Powering for Wireless Sensors. Proceedings of the IEEE, 2013, 101, 1397-1409.	16.4	200
99	Cut the Cord: Low-Power Far-Field Wireless Powering. IEEE Microwave Magazine, 2013, 14, 55-62.	0.7	89
100	Terahertz metrology and instrumentation. , 2012, , .		1
101	GaAs MMIC tunable directional coupler. , 2012, , .		6
102	Low-cost 63% efficient 2.5-kW UHF power amplifier for a wind profiler radar. , 2012, , .		2
103	Efficient and Linear Amplification of Spectrally Confined Pulsed AM Radar Signals. IEEE Microwave and Wireless Components Letters, 2012, 22, 279-281.	2.0	13
104	PA Efficiency and Linearity Enhancement Using External Harmonic Injection. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 4097-4106.	2.9	35
105	Micro-Fabricated 130-180 GHz Frequency Scanning Waveguide Arrays. IEEE Transactions on Antennas and Propagation, 2012, 60, 3647-3653.	3.1	62
106	High-Efficiency Harmonically Terminated Diode and Transistor Rectifiers. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 4043-4052.	2.9	234
107	High-efficiency harmonically-terminated rectifier for wireless powering applications. , 2012, , .		22
108	Efficiency and linearity of power amplifiers with external harmonic injection. , 2012, , .		7

#	ARTICLE	IF	CITATIONS
109	Codesign of PA, Supply, and Signal Processing for Linear Supply-Modulated RF Transmitters. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2010-2020.	2.9	74
110	Low-Power Wireless Power Delivery. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2277-2286.	2.9	197
111	Reference modulation for calibrated measurements of tag backscatter. , 2011, , .		4
112	G-band frequency-steering antenna array design and measurements. , 2011, , .		0
113	Custom IC for Ultralow Power RF Energy Scavenging. IEEE Transactions on Power Electronics, 2011, 26, 1620-1626.	5.4	50
114	Testing passive UHF tag performance evolution. , 2011, , .		5
115	THz Metrology and Instrumentation. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 133-144.	2.0	87
116	Far-Field RF-Powered Variable Duty Cycle Wireless Sensor Platform. IEEE Transactions on Circuits and Systems II: Express Briefs, 2011, 58, 822-826.	2.2	26
117	Analysis of High-Efficiency Power Amplifiers With Arbitrary Output Harmonic Terminations. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2037-2048.	2.9	36
118	System considerations for efficient and linear supply modulated RF transmitters. , 2010, , .		14
119	Polar phase-conjugating active arrays for spectrally-efficient linear wireless links. , 2010, , .		1
120	Micro-Coaxial Impedance Transformers. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2908-2914.	2.9	18
121	Power Management System for Online Low Power RF Energy Harvesting Optimization. IEEE Transactions on Circuits and Systems I: Regular Papers, 2010, 57, 1802-1811.	3.5	167
122	Envelope tracking transmitter system analysis method. , 2010, , .		10
123	Broadband Lumped-Element Integrated $N$ -Way Power Dividers for Voltage Standards. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 2055-2063.	2.9	49
124	Custom IC for Ultra-low Power RF Energy Harvesting. , 2009, , .		25
125	Adaptive tuning for handheld transmitters. , 2009, , .		17
126	Micro-coaxial lines for active hybrid-monolithic circuits. , 2009, , .		12



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127	Measuring Transistor Large-Signal Noise Figure for Low-Power and Low Phase-Noise Oscillator Design. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1511-1515.	2.9	58
128	A high-efficiency linear polar transmitter for EDGE. , 2008, , .		10
129	Resistor Emulation Approach to Low-Power RF Energy Harvesting. IEEE Transactions on Power Electronics, 2008, 23, 1494-1501.	5.4	212
130	A 65-W high-efficiency UHF GaN power amplifier. , 2008, , .		6
131	Ka-band surface-mount directional coupler fabricated using micro-rectangular coaxial transmission lines. , 2008, , .		11
132	Linearity of X-band Class-E Power Amplifiers in a Digital Polar Transmitter. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	5
133	Dual-polarization large scan angle broadband thick-metal FSS. , 2007, , .		2
134	A 2 Gb/s &#x0039;&#x003A3; Directly Driven Wireless Link. , 2007, , .		1
135	\$Ka\$-Band Miniaturized Quasi-Planar High-\$Q\$ Resonators. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1272-1279.	2.9	18
136	Additive Phase Noise in Linear and High-Efficiency X-Band Power Amplifiers. , 2006, , .		6
137	Class-E Power Amplifier in a Polar EDGE Transmitter. , 2006, , .		12
138	Passive Millimeter-Wave Ranging Using Discrete Lenses with Wave-Front Coding. , 2001, , .		0
139	Broadband Rectenna Arrays for Randomly Polarized Incident Waves. , 2000, , .		23
140	Nonlinear modeling of class-E microwave power amplifiers. International Journal of RF and Microwave Computer-Aided Engineering, 1999, 9, 93-103.	0.8	8
141	Analysis and Design of Oscillator Grids and Arrays. , 0, , 301-332.		0
142	SCALABLE MICROWAVE WASTE-TO-FUEL CONVERSION. , 0, , .		0