

# Robert J Marks

## List of Publications by Year in descending order

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55  
papers

377  
citations

1040056

9  
h-index

1058476

14  
g-index

55  
all docs

55  
docs citations

55  
times ranked

191  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exponential Contingency Explosion: Implications for Artificial General Intelligence. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2800-2808.	9.3	5
2	Spurious Beam Suppression in Dual-Beam Phased Array Transmission by Impedance Tuning. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 3932-3945.	4.7	6
3	Artificially Intelligent Power Amplifier Array (AIPAA): A New Paradigm in Reconfigurable Radar Transmission. , 2021, , .		2
4	Bias Smith Tube Optimization of Drain Voltage and Load Reflection Coefficient to Maximize Power-Added Efficiency Under ACPR Constraints for Radar Power Amplifiers. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 182-191.	4.7	1
5	Real-Time Amplifier Load-Impedance Optimization for Adaptive Radar Transmitters Using a Nonlinear Tunable Varactor Matching Network. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 160-169.	4.7	5
6	Real-Time Circuit Reconfiguration for a Cognitive Software-Defined Radar Transmission: A New Paradigm in Spectrum Sharing. , 2019, , .		6
7	Joint Radar Amplifier Circuit and Waveform Optimization for Ambiguity Function, Power-Added Efficiency, and Spectral Compliance. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 1190-1199.	4.7	7
8	Sampling below the Nyquist density using spectral subtiles. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2019, 36, 1322.	1.5	0
9	Frequency-agile and spectrally sensitive radar transmitter amplifier optimizations. , 2018, , .		0
10	A fast load-pull optimization for power-added efficiency under output power and ACPR constraints. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2906-2916.	4.7	3
11	Fast, simultaneous optimization of power amplifier input power and load impedance for power-added efficiency and adjacent-channel power ratio using the power smith tube. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 928-937.	4.7	10
12	The bias smith tube: Simultaneous optimization of bias voltage and load impedance in power amplifier design. , 2016, , .		5
13	Recovery from Sensor Failure in an Evolving Multiobjective Swarm. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 170-174.	9.3	9
14	Woodward's ambiguity function: From foundations to applications. , 2015, , .		10
15	Measuring meaningful information in images: algorithmic specified complexity. IET Computer Vision, 2015, 9, 884-894.	2.0	2
16	Designing power amplifiers for spectral compliance using spectral mask load-pull measurements. , 2015, , .		8
17	Fast radar power amplifier optimization for bandwidth, efficiency, and spectral confinement using the Smith Tube. , 2015, , .		0
18	Algorithmic Specified Complexity in the Game of Life. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2015, 45, 584-594.	9.3	2

#	ARTICLE	IF	CITATIONS
19	Enabling the Internet of Things: Reconfigurable power amplifier techniques using intelligent algorithms and the smith tube. , 2014, , .		0
20	Direct algorithm for the Pareto loadâ€pull optimisation of powerâ€added efficiency and adjacentâ€channel power ratio. IET Radar, Sonar and Navigation, 2014, 8, 1280-1287.	1.8	20
21	Spectrum Analysis Considerations for Radar Chirp Waveform Spectral Compliance Measurements. IEEE Transactions on Electromagnetic Compatibility, 2014, 56, 520-529.	2.2	1
22	Measurement-based radar waveform optimization using the ambiguity function and spectral mask. , 2014, , .		2
23	Radar power amplifier circuit and waveform optimization for spectrally confined, reconfigurable radar systems. , 2013, , .		5
24	Reduction of out-of-band power and peak-to-average power ratio in OFDM-based cognitive radio using alternating projections. , 2013, , .		1
25	Unexpected emergent behaviors from elementary swarms. , 2013, , .		6
26	Radar waveform optimization to minimize spectral spreading and achieve target detection. , 2013, , .		8
27	Estimation of multi-component mixture proportions using regression machine analysis of ultra-wideband spectroscopic measurements. , 2013, , .		1
28	On the improbability of algorithmic specified complexity. , 2013, , .		4
29	Conservation of information in relative search performance. , 2013, , .		1
30	Competitive Evolution of Tactical Multiswarm Dynamics. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 563-569.	9.3	9
31	Evolutionary Inversion of Swarm Emergence Using Disjunctive Combs Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2013, 43, 1063-1076.	9.3	14
32	Tactical task allocation and resource management in non-stationary swarm dynamics. , 2013, , .		2
33	Common control channel assignment in cognitive radio networks using potential game theory. , 2013, , .		4
34	Joint reduction of out-of-band power and peak-to-average power ratio for non-contiguous OFDM systems. , 2013, , .		1
35	A test platform for real-time waveform and impedance optimization in microwave radar systems. , 2012, , .		4
36	Evaluation of Harmonic Coupling Weights in Nonlinear Periodicity Preservation Systems. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 3024-3033.	5.4	3

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37	Small Perturbation Harmonic Coupling in Nonlinear Periodicity Preservation Circuits. IEEE Transactions on Circuits and Systems I: Regular Papers, 2012, 59, 3034-3045.	5.4	6
38	On the stability of mu-varying dynamic equations on stochastically generated time scales. , 2012, , .		6
39	Radar chirp waveform selection and circuit optimization using ACPR load-pull measurements. , 2012, , .		9
40	Frequency multiplexing tickle tones to determine harmonic coupling weights in nonlinear systems. , 2011, , .		1
41	Regions of exponential stability for LTI systems on nonuniform discrete domains. , 2011, , .		10
42	The Poisson process and associated probability distributions on time scales. , 2011, , .		4
43	Convergence of Unilateral Laplace Transforms on Time Scales. Circuits, Systems, and Signal Processing, 2010, 29, 971-997.	2.0	12
44	Bilateral Laplace Transforms on Time Scales: Convergence, Convolution, and the Characterization of Stochastic Time Series. Circuits, Systems, and Signal Processing, 2010, 29, 1141-1165.	2.0	12
45	State feedback stabilization of linear time-varying systems on time scales. , 2010, , .		7
46	Time scale discrete Fourier transforms. , 2010, , .		2
47	Stability of switched linear systems on non-uniform time domains. , 2010, , .		15
48	Efficient per query information extraction from a Hamming oracle. , 2010, , .		7
49	Evolutionary synthesis of nand logic: Dissecting a digital organism. , 2009, , .		13
50	Bernoulli's principle of insufficient reason and conservation of information in computer search. , 2009, , .		22
51	Use of a step-response approximation for thermal transient modeling in power MOSFETs. , 2009, , .		2
52	Emergent Behaviors of Protector, Refugee, and Aggressor Swarms. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 471-476.	5.0	14
53	Imaging sampling below the Nyquist density without aliasing. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1990, 7, 92.	1.5	55
54	Multidimensional-signal sample dependency at Nyquist densities. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1986, 3, 268.	1.5	13

#	ARTICLE	IF	CITATIONS
55	Application of Evolutionary Technique to Power System Vulnerability Assessment. , 0, , 261-284.		0