Amir Mortazawi

List of Publications by Citations

75 papers	827 citations	17 h-index	24 g-index
91 ext. papers	1,080 ext. citations	3.3 avg, IF	4.74 L-index

#	Paper	IF	Citations
75	Present and Future Trends in Filters and Multiplexers. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 3324-3360	4.1	56
74	Low Phase-Noise Planar Oscillators Employing Elliptic-Response Bandpass Filters. *IEEE Transactions on Microwave Theory and Techniques*, **2009**, 57, 1959-1965	4.1	49
73	Improving Power Amplifier Efficiency and Linearity Using a Dynamically Controlled Tunable Matching Network. *IEEE Transactions on Microwave Theory and Techniques*, **2008**, 56, 3239-3244	4.1	43
72	Low Phase-Noise Planar Oscillators Based on Low-Noise Active Resonators. *IEEE Transactions on Microwave Theory and Techniques*, **2010**, 58, 1133-1139	4.1	41
71	Adaptive Input-Power Distribution in Doherty Power Amplifiers for Linearity and Efficiency Enhancement. *IEEE Transactions on Microwave Theory and Techniques*, **2010**, 58, 2764-2771	4.1	41
70	A New Low Loss Rotman Lens Design Using a Graded Dielectric Substrate. *IEEE Transactions on Microwave Theory and Techniques*, **2008**, 56, 2734-2741	4.1	36
69	A DC Voltage Dependant Switchable Thin Film Bulk Wave Acoustic Resonator Using Ferroelectric Thin Film. *IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium*, **2007**,		34
68	An Intrinsically Switchable FBAR Filter Based on Barium Titanate Thin Films. *IEEE Microwave and Wireless Components Letters*, **2009**, 19, 359-361	2.6	28
67	Improving Linearity of Ferroelectric-Based Microwave Tunable Circuits. *IEEE Transactions on Microwave Theory and Techniques*, **2007**, 55, 354-360	4.1	24
66	A Frequency Tunable 360□Analog CMOS Phase Shifter With an Adjustable Amplitude. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2017**, 64, 1427-1431	3.5	23
65	Position-Insensitive Wireless Power Transfer Based on Nonlinear Resonant Circuits. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 3844-3855	4.1	22
64	Intrinsically switchable, high-Q ferroelectricon-silicon composite film bulk acoustic resonators. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2014**, 61, 231-8	3.2	22
63	Medium Wave Energy Scavenging for Wireless Structural Health Monitoring Sensors. *IEEE Transactions on Microwave Theory and Techniques*, **2014**, 62, 1067-1073	4.1	22
62	Elimination of beam squint in uniformly excited serially fed antenna arrays using negative group delay circuits **2012**,		20
61	Scalable Phased Array Architectures With a Reduced Number of Tunable Phase Shifters. *IEEE Transactions on Microwave Theory and Techniques*, **2017**, 65, 3428-3434	4.1	19
60	Large-Signal Performance and Modeling of Intrinsically Switchable Ferroelectric FBARs. *IEEE Transactions on Microwave Theory and Techniques*, **2013**, 61, 415-422	4.1	17
59	A New X-Band Low Phase-Noise Multiple-Device Oscillator Based on the Extended-Resonance Technique. *IEEE Transactions on Microwave Theory and Techniques*, **2007**, 55, 1642-1648	4.1	17

58	Method of generating negative group delay in phase arrays without using lossy circuits **2013**,		15
57	Rectifier Array With Adaptive Power Distribution for Wide Dynamic Range RF-DC Conversion. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 392-401	4.1	15
56	BAW filter design method based on intrinsically switchable ferroelectric BST FBARs **2016**,		14
55	Bandwidth Enhancement of RF Resonators Using Duffing Nonlinear Resonance for Wireless Power Applications. *IEEE Transactions on Microwave Theory and Techniques*, **2016**, 64, 3695-3702	4.1	13
54	Fabrication of a Low insertion loss intrinsically switchable BAW filter based on BST FBARs **2017**,		12
53	A 24-GHz Modular Transmit Phased Array. *IEEE Transactions on Microwave Theory and Techniques*, **2011**, 59, 1665-1672	4.1	11
52	Thick electrodes for high frequency high Q tunable ferroelectric thin film varactors. *Integrated Ferroelectrics*, **2001**, 39, 321-330	0.8	11
51	Linearity analysis of intrinsically switchable ferroelectric FBAR filters **2013**,		10
50	Intrinsically Switchable Frequency Reconfigurable Barium Strontium Titanate Resonators and Filters. *IEEE Transactions on Microwave Theory and Techniques*, **2017**, 65, 3221-3229	4.1	9
49	Compact Intrinsically Switchable FBAR Filters Utilizing Ferroelectric BST. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 1468-1474	3.2	9
48	A New Low Loss Rotman Lens Design for Multibeam Phased Arrays **2006**,		9
47	Negative Piezoelectric-Based Electric-Field-Actuated Mode-Switchable Multilayer Ferroelectric FBARs for Selective Control of Harmonic Resonances Without Degrading K□ *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2020**, 67, 1922-1930	3.2	8
46	A Doherty power amplifier with extended resonance power divider for linearity improvement **2008**,		8
45	A Monopulse Rotman Lens Phased Array for Enhanced Angular Resolution. *IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium*, **2007**,		8
44	An X-band Low Phase Noise Oscillator Employing a Four-pole Elliptic-Response Microstrip Bandpass Filter. *IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium*, **2007**,		8
43	Intrinsically Switchable Filter Bank Employing Ferroelectric Barium Strontium Titanate. *IEEE Transactions on Microwave Theory and Techniques*, **2018**, 66, 5501-5507	4.1	8
42	Reconfigurable Radios Employing Ferroelectrics: Recent Progress on Reconfigurable RF Acoustic Devices Based on Thin-Film Ferroelectric Barium Strontium Titanate. *IEEE Microwave Magazine*, **2020**, 21, 120-135	1.2	7
41	Intrinsically switchable thin film ferroelectric resonators **2012**,		7

40	High sensitivity RF energy harvesting from AM broadcasting stations for civilian infrastructure degradation monitoring **2013**,		6
39	Duffing resonator circuits for performance enhancement of wireless power harvesters **2015**,		6
38	Large signal performance of ferroelectric FBARs **2012**,		6
37	Packaging Method for Increased Isolation Using a Microstrip to Waveguide Transition. *IEEE Microwave and Wireless Components Letters*, **2007**, 17, 163-165	2.6	6
36	Lateral-wave spurious-modes elimination in switchable ferroelectric BST-on-Si composite FBARs **2016**,		6
35	Intrinsically Switchable Ferroelectric Contour Mode Resonators. *IEEE Transactions on Microwave Theory and Techniques*, **2013**, 61, 2806-2813	4.1	5
34	Intrinsically switchable interdigitated barium titanate thin film contour mode resonators **2010**,		5
33	A DC voltage dependent switchable acoustically coupled BAW filter based on BST-on-silicon composite structure **2012**,		5
32	Intrinsically switchable contour mode acoustic wave resonators based on barium titanate thin films **2009**,		5
31	A 26 dB wide dynamic range rectifier array employing three rectifying devices **2017**,		4
30	A novel coupling factor independent highly efficient resonant based wireless power transfer **2017**,		4
29	Temperature dependent characteristics of intrinsically switchable ferroelectric composite FBARs **2015**,		4
28	A modular extended resonance transmit phased array with improved scan angle **2009**,		4
27	Intrinsically Switchable and Bandwidth Reconfigurable FBAR Filter Employing Electrostriction in Ferroelectric BST **2018**,		4
26	Switched Mode Thin Film Bulk Acoustic Wave Resonators **2019**,		3
25	A New Integrated K-Band Analog Vector Sum Phase Shifter **2018**,		3
24	Physics-based large-signal modeling of intrinsically tunable and switchable ferroelectric FBARs **2014**,		3
23	Elimination of beam squint in serially fed arrays with negative group delay circuits incorporating antenna elements **2012**,		3

22	Oscillator phase-noise reduction using low-noise high-Q active resonators **2010**,		3
21	A K-Band Low-Complexity Modular Scalable Wide-Scan Phased Array **2020**,		3
20	A Coupling Factor Independent Wireless Power Transfer System Employing Two Nonlinear Circuits **2020**,		3
19	A Switchless Quad Band Filter Bank Based on Ferroelectric BST FBARs. *IEEE Microwave and Wireless Components Letters*, **2021**, 31, 662-665	2.6	3
18	Design of BST-on-Si composite FBARs for switchable BAW filter application **2016**,		3
17	Nonlinear Resonant Circuits for Coupling-Insensitive Wireless Power Transfer Circuits **2018**,		3
16	Intrinsically Switchable Miniature Ferroelectric Stacked Crystal Filters **2019**,		2
15	Design of a compact, low complexity scalable phased array antenna **2015**,		2
14	BST thin film bulk acoustic resonator optimization for un-cooled IR sensors application **2017**,		2
13	Switching reliability and switching speed of barium strontium titanate (BST) BAW devices **2014**,		2
12	A self-sensing AM frequency electromagnetic energy scavenger **2013**,		2
11	A new approach to design low cost, low complexity phased arrays **2010**,		2
10	A tray based Rotman lens array with beamforming in two dimensions for millimeter-wave radar **2010**,		2
9	Intrinsically switchable, BST-on-silicon composite FBARs **2011**,		2
8	Miniature dual polarized L-shaped horn antenna array for broadband millimeter-wave electronically scanned arrays **2006**,		2
7	A Position-Insensitive Wireless Power Transfer System Employing Coupled Nonlinear Resonators. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 69, 1752-1759	4.1	2
6	Intrinsically switchable ferroelectric bulk acoustic wave filters based on barium strontium titanate thin films **2013**,		1
5	A new approach to design low cost, low complexity phased arrays **2010**,		1

4	The beginnings of this Transactions. *IEEE Transactions on Microwave Theory and Techniques*, **2008**, 56, 565-567	4.1	1
3	Phenomenological Circuit Modeling of Ferroelectric-Driven Bulk Acoustic Wave Resonators. *IEEE Transactions on Microwave Theory and Techniques*, **2022**, 70, 919-925	4.1	1
2	A New Coupling Insensitive Nonlinear Capacitive Resonant Wireless Power Transfer Circuit **2021**,		1
1	An Integrated Compact Phase Shifter With a Single Analog Control. *IEEE Microwave and Wireless Components Letters*, **2021**, 1-4	2.6	