Amir Mortazawi

List of Publications by Year in Descending Order

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	Phenomenological Circuit Modeling of Ferroelectric-Driven Bulk Acoustic Wave Resonators. *IEEE Transactions on Microwave Theory and Techniques*, **2022**, 70, 919-925	4.1	1
74	An Integrated Compact Phase Shifter With a Single Analog Control. *IEEE Microwave and Wireless Components Letters*, **2021**, 1-4	2.6	
73	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
72	A Switchless Quad Band Filter Bank Based on Ferroelectric BST FBARs. *IEEE Microwave and Wireless Components Letters*, **2021**, 31, 662-665	2.6	3
71	A New Coupling Insensitive Nonlinear Capacitive Resonant Wireless Power Transfer Circuit **2021**,		1
70	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
69	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
68	A K-Band Low-Complexity Modular Scalable Wide-Scan Phased Array **2020**,		3
67	A Coupling Factor Independent Wireless Power Transfer System Employing Two Nonlinear Circuits **2020**,		3
66	Switched Mode Thin Film Bulk Acoustic Wave Resonators **2019**,		3
65	Intrinsically Switchable Miniature Ferroelectric Stacked Crystal Filters **2019**,		2
64	Position-Insensitive Wireless Power Transfer Based on Nonlinear Resonant Circuits. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 3844-3855	4.1	22
63	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
62	A New Integrated K-Band Analog Vector Sum Phase Shifter **2018**,		3
61	Compact Intrinsically Switchable FBAR Filters Utilizing Ferroelectric BST. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2018**, 65, 1468-1474	3.2	9
60	Intrinsically Switchable Filter Bank Employing Ferroelectric Barium Strontium Titanate. *IEEE Transactions on Microwave Theory and Techniques*, **2018**, 66, 5501-5507	4.1	8
59	Intrinsically Switchable and Bandwidth Reconfigurable FBAR Filter Employing Electrostriction in Ferroelectric BST **2018**,		4

58	Nonlinear Resonant Circuits for Coupling-Insensitive Wireless Power Transfer Circuits **2018**,		3
57	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
56	Intrinsically Switchable Frequency Reconfigurable Barium Strontium Titanate Resonators and Filters. *IEEE Transactions on Microwave Theory and Techniques*, **2017**, 65, 3221-3229	4.1	9
55	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
54	Fabrication of a Low insertion loss intrinsically switchable BAW filter based on BST FBARs **2017**,		12
53	A 26 dB wide dynamic range rectifier array employing three rectifying devices **2017**,		4
52	A novel coupling factor independent highly efficient resonant based wireless power transfer **2017**,		4
51	BST thin film bulk acoustic resonator optimization for un-cooled IR sensors application **2017**,		2
50	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
49	BAW filter design method based on intrinsically switchable ferroelectric BST FBARs **2016**,		14
48	Lateral-wave spurious-modes elimination in switchable ferroelectric BST-on-Si composite FBARs **2016**,		6
47	Design of BST-on-Si composite FBARs for switchable BAW filter application **2016**,		3
46	Present and Future Trends in Filters and Multiplexers. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 3324-3360	4.1	56
45	Design of a compact, low complexity scalable phased array antenna **2015**,		2
44	Temperature dependent characteristics of intrinsically switchable ferroelectric composite FBARs **2015**,		4
43	Duffing resonator circuits for performance enhancement of wireless power harvesters **2015**,		6
42	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
41	Medium Wave Energy Scavenging for Wireless Structural Health Monitoring Sensors. *IEEE Transactions on Microwave Theory and Techniques*, **2014**, 62, 1067-1073	4.1	22

40	Physics-based large-signal modeling of intrinsically tunable and switchable ferroelectric FBARs **2014**,		3
39	Switching reliability and switching speed of barium strontium titanate (BST) BAW devices **2014**,		2
38	Large-Signal Performance and Modeling of Intrinsically Switchable Ferroelectric FBARs. *IEEE Transactions on Microwave Theory and Techniques*, **2013**, 61, 415-422	4.1	17
37	Intrinsically Switchable Ferroelectric Contour Mode Resonators. *IEEE Transactions on Microwave Theory and Techniques*, **2013**, 61, 2806-2813	4.1	5
36	High sensitivity RF energy harvesting from AM broadcasting stations for civilian infrastructure degradation monitoring **2013**,		6
35	Intrinsically switchable ferroelectric bulk acoustic wave filters based on barium strontium titanate thin films **2013**,		1
34	Method of generating negative group delay in phase arrays without using lossy circuits **2013**,		15
33	Linearity analysis of intrinsically switchable ferroelectric FBAR filters **2013**,		10
32	A self-sensing AM frequency electromagnetic energy scavenger **2013**,		2
31	Large signal performance of ferroelectric FBARs **2012**,		6
30	Elimination of beam squint in serially fed arrays with negative group delay circuits incorporating antenna elements **2012**,		3
29	Elimination of beam squint in uniformly excited serially fed antenna arrays using negative group delay circuits **2012**,		20
28	Intrinsically switchable thin film ferroelectric resonators **2012**,		7
27	A DC voltage dependent switchable acoustically coupled BAW filter based on BST-on-silicon composite structure **2012**,		5
26	A 24-GHz Modular Transmit Phased Array. *IEEE Transactions on Microwave Theory and Techniques*, **2011**, 59, 1665-1672	4.1	11
25	Intrinsically switchable, BST-on-silicon composite FBARs **2011**,		2
24	Intrinsically switchable interdigitated barium titanate thin film contour mode resonators **2010**,		5
23	A new approach to design low cost, low complexity phased arrays **2010**,		2

22	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
21	A new approach to design low cost, low complexity phased arrays **2010**,		1
20	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
19	Oscillator phase-noise reduction using low-noise high-Q active resonators **2010**,		3
18	A tray based Rotman lens array with beamforming in two dimensions for millimeter-wave radar **2010**,		2
17	An Intrinsically Switchable FBAR Filter Based on Barium Titanate Thin Films. *IEEE Microwave and Wireless Components Letters*, **2009**, 19, 359-361	2.6	28
16	Low Phase-Noise Planar Oscillators Employing Elliptic-Response Bandpass Filters. *IEEE Transactions on Microwave Theory and Techniques*, **2009**, 57, 1959-1965	4.1	49
15	A modular extended resonance transmit phased array with improved scan angle **2009**,		4
14	Intrinsically switchable contour mode acoustic wave resonators based on barium titanate thin films **2009**,		5
13	The beginnings of this Transactions. *IEEE Transactions on Microwave Theory and Techniques*, **2008**, 56, 565-567	4.1	1
12	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
11	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
10	A Doherty power amplifier with extended resonance power divider for linearity improvement **2008**,		8
9	Packaging Method for Increased Isolation Using a Microstrip to Waveguide Transition. *IEEE Microwave and Wireless Components Letters*, **2007**, 17, 163-165	2.6	6
8	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
7	Improving Linearity of Ferroelectric-Based Microwave Tunable Circuits. *IEEE Transactions on Microwave Theory and Techniques*, **2007**, 55, 354-360	4.1	24
6	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
5	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

4	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
3	A New Low Loss Rotman Lens Design for Multibeam Phased Arrays **2006**,		9
2	Miniature dual polarized L-shaped horn antenna array for broadband millimeter-wave electronically scanned arrays **2006**,		2
1	Thick electrodes for high frequency high Q tunable ferroelectric thin film varactors. *Integrated Ferroelectrics*, **2001**, 39, 321-330	0.8	11