

# Amir Mortazawi

## List of Publications by Year in descending order

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90  
papers

1,293  
citations

430442

18  
h-index

433756

31  
g-index

91  
all docs

91  
docs citations

91  
times ranked

962  
citing authors

#	ARTICLE	IF	CITATIONS
1	Present and Future Trends in Filters and Multiplexers. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3324-3360.	2.9	109
2	Low Phase-Noise Planar Oscillators Employing Elliptic-Response Bandpass Filters. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1959-1965.	2.9	66
3	Improving Power Amplifier Efficiency and Linearity Using a Dynamically Controlled Tunable Matching Network. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 3239-3244.	2.9	65
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, , .	0.0	55
5	Adaptive Input-Power Distribution in Doherty Power Amplifiers for Linearity and Efficiency Enhancement. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2764-2771.	2.9	52
6	A New Low Loss Rotman Lens Design Using a Graded Dielectric Substrate. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2734-2741.	2.9	51
7	Low Phase-Noise Planar Oscillators Based on Low-Noise Active Resonators. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1133-1139.	2.9	49
8	Position-Insensitive Wireless Power Transfer Based on Nonlinear Resonant Circuits. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3844-3855.	2.9	43
9	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.	2.2	41
10	Scalable Phased Array Architectures With a Reduced Number of Tunable Phase Shifters. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3428-3434.	2.9	37
11	Medium Wave Energy Scavenging for Wireless Structural Health Monitoring Sensors. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1067-1073.	2.9	34
12	An Intrinsically Switchable FBAR Filter Based on Barium Titanate Thin Films. IEEE Microwave and Wireless Components Letters, 2009, 19, 359-361.	2.0	33
13	Improving Linearity of Ferroelectric-Based Microwave Tunable Circuits. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 354-360.	2.9	32
14	Intrinsically switchable, high-Q ferroelectric-on-silicon composite film bulk acoustic resonators. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 231-238.	1.7	32
15	Rectifier Array With Adaptive Power Distribution for Wide Dynamic Range RF-DC Conversion. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 392-401.	2.9	31
16	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, , .	0.0	22
17	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.	2.9	22
18	Fabrication of a Low insertion loss intrinsically switchable BAW filter based on BST FBARs. , 2017, , .		22

#	ARTICLE	IF	CITATIONS
19	Elimination of beam squint in uniformly excited serially fed antenna arrays using negative group delay circuits. , 2012, , .		21
20	BAW filter design method based on intrinsically switchable ferroelectric BST FBARs. , 2016, , .		20
21	Large-Signal Performance and Modeling of Intrinsically Switchable Ferroelectric FBARs. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 415-422.	2.9	19
22	Bandwidth Enhancement of RF Resonators Using Duffing Nonlinear Resonance for Wireless Power Applications. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3695-3702.	2.9	19
23	Compact Intrinsically Switchable FBAR Filters Utilizing Ferroelectric BST. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1468-1474.	1.7	19
24	Method of generating negative group delay in phase arrays without using lossy circuits. , 2013, , .		18
25	Negative Piezoelectric-Based Electric-Field-Actuated Mode-Switchable Multilayer Ferroelectric FBARs for Selective Control of Harmonic Resonances Without Degrading $\kappa_{eff}^2$ . IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1922-1930.	1.7	17
26	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.	0.7	16
27	A Monopulse Rotman Lens Phased Array for Enhanced Angular Resolution. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	15
28	A 24-GHz Modular Transmit Phased Array. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1665-1672.	2.9	15
29	A New Low Loss Rotman Lens Design for Multibeam Phased Arrays. , 2006, , .		14
30	Linearity analysis of intrinsically switchable ferroelectric FBAR filters. , 2013, , .		14
31	Intrinsically Switchable Filter Bank Employing Ferroelectric Barium Strontium Titanate. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5501-5507.	2.9	14
32	Thick electrodes for high frequency high Q tunable ferroelectric thin film varactors. Integrated Ferroelectrics, 2001, 39, 321-330.	0.3	13
33	A modular extended resonance transmit phased array with improved scan angle. , 2009, , .		11
34	Intrinsically Switchable Frequency Reconfigurable Barium Strontium Titanate Resonators and Filters. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 3221-3229.	2.9	11
35	A Position-Insensitive Wireless Power Transfer System Employing Coupled Nonlinear Resonators. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 1752-1759.	2.9	11
36	A Doherty power amplifier with extended resonance power divider for linearity improvement. , 2008, , .		10

#	ARTICLE	IF	CITATIONS
37	Intrinsically switchable interdigitated barium titanate thin film contour mode resonators. , 2010, , .		9
38	Intrinsically switchable thin film ferroelectric resonators. , 2012, , .		9
39	High sensitivity RF energy harvesting from AM broadcasting stations for civilian infrastructure degradation monitoring. , 2013, , .		9
40	Duffing resonator circuits for performance enhancement of wireless power harvesters. , 2015, , .		9
41	Lateral-wave spurious-modes elimination in switchable ferroelectric BST-on-Si composite FBARs. , 2016, , .		9
42	Intrinsically Switchable and Bandwidth Reconfigurable FBAR Filter Employing Electrostriction in Ferroelectric BST. , 2018, , .		9
43	Large signal performance of ferroelectric FBARs. , 2012, , .		8
44	A novel coupling factor independent highly efficient resonant based wireless power transfer. , 2017, , .		8
45	A very low phase-noise voltage-controlled-oscillator at X-band. , 2011, , .		7
46	Design of a compact, low complexity scalable phased array antenna. , 2015, , .		7
47	Nonlinear Resonant Circuits for Coupling-Insensitive Wireless Power Transfer Circuits. , 2018, , .		7
48	Packaging Method for Increased Isolation Using a Microstrip to Waveguide Transition. IEEE Microwave and Wireless Components Letters, 2007, 17, 163-165.	2.0	6
49	Intrinsically switchable contour mode acoustic wave resonators based on barium titanate thin films. , 2009, , .		6
50	A DC voltage dependent switchable acoustically coupled BAW filter based on BST-on-silicon composite structure. , 2012, , .		6
51	Intrinsically Switchable Ferroelectric Contour Mode Resonators. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2806-2813.	2.9	6
52	Design of BST-on-Si composite FBARs for switchable BAW filter application. , 2016, , .		6
53	A 26 dB wide dynamic range rectifier array employing three rectifying devices. , 2017, , .		6
54	A Switchless Quad Band Filter Bank Based on Ferroelectric BST FBARs. IEEE Microwave and Wireless Components Letters, 2021, 31, 662-665.	2.0	6

#	ARTICLE	IF	CITATIONS
55	A new approach to design low cost, low complexity phased arrays. , 2010, , .		5
56	A self-sensing AM frequency electromagnetic energy scavenger. , 2013, , .		5
57	Design of a wide dynamic range rectifier array with an adaptive power distribution technique. , 2016, , .		5
58	An Integrated Compact Phase Shifter With a Single Analog Control. IEEE Microwave and Wireless Components Letters, 2022, 32, 410-413.	2.0	5
59	Intrinsically switchable, BST-on-silicon composite FBARs. , 2011, , .		4
60	Elimination of beam squint in serially fed arrays with negative group delay circuits incorporating antenna elements. , 2012, , .		4
61	Physics-based large-signal modeling of intrinsically tunable and switchable ferroelectric FBARs. , 2014, , .		4
62	Temperature dependent characteristics of intrinsically switchable ferroelectric composite FBARs. , 2015, , .		4
63	Un-cooled resonant IR detectors based on Barium Strontium Titanate switchable FBARs. , 2015, , .		4
64	A New Integrated K-Band Analog Vector Sum Phase Shifter. , 2018, , .		4
65	A Coupling Factor Independent Wireless Power Transfer System Employing Two Nonlinear Circuits. , 2020, , .		4
66	A New Coupling Insensitive Nonlinear Capacitive Resonant Wireless Power Transfer Circuit. , 2021, , .		4
67	Miniature dual polarized L-shaped horn antenna array for broadband millimeter-wave electronically scanned arrays. , 2006, , .		3
68	Oscillator phase-noise reduction using low-noise high-Q active resonators. , 2010, , .		3
69	Design of a scalable phased array antenna with a simplified architecture. , 2015, , .		3
70	Switched Mode Thin Film Bulk Acoustic Wave Resonators. , 2019, , .		3
71	A K-Band Low-Complexity Modular Scalable Wide-Scan Phased Array. , 2020, , .		3
72	A tray based Rotman lens array with beamforming in two dimensions for millimeter-wave radar. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
73	Switching reliability and switching speed of barium strontium titanate (BST) BAW devices. , 2014, , .		2
74	Switchable dual-frequency barium strontium titanate film bulk acoustic resonators. , 2014, , .		2
75	BST thin film bulk acoustic resonator optimization for un-cooled IR sensors application. , 2017, , .		2
76	High $Q$ &lt;math>K^2</math> intrinsically switchable BST thin film bulk acoustic resonators. , 2017, , .		2
77	Intrinsically Switchable Miniature Ferroelectric Stacked Crystal Filters. , 2019, , .		2
78	The beginnings of this Transactions. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 565-567.	2.9	1
79	A new approach to design low cost, low complexity phased arrays. , 2010, , .		1
80	A high voltage high power (HiVP) class-E power amplifier at VHF. , 2011, , .		1
81	Intrinsically switchable ferroelectric bulk acoustic wave filters based on barium strontium titanate thin films. , 2013, , .		1
82	Design of a scalable phased array antenna with a simplified architecture. , 2015, , .		1
83	On the Linearity of BST Thin Film Bulk Acoustic Resonators. , 2018, , .		1
84	Physics Based Modeling of Electrostriction Based BAW Resonators. , 2021, , .		1
85	Phenomenological Circuit Modeling of Ferroelectric-Driven Bulk Acoustic Wave Resonators. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 919-925.	2.9	1
86	Editorial: Message From the Outgoing Editors. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2317-2318.	2.9	0
87	A 24 GHz modular phased array based on extended resonance technique. , 2010, , .		0
88	Analysis and design of a medium wave high sensitivity electromagnetic energy harvester. , 2014, , .		0
89	Adaptively matched dual band GPS antenna for plasma environments. , 2015, , .		0
90	Linearity Measurements of Intrinsically Switchable BST FBAR Filters. , 2018, , .		0