

# Mina Rais-Zadeh

## List of Publications by Year in descending order

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54  
papers

1,612  
citations

394286

19  
h-index

377752

34  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1509  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gallium Nitride as an Electromechanical Material. Journal of Microelectromechanical Systems, 2014, 23, 1252-1271.	1.7	173
2	Electrically driven acousto-optics and broadband non-reciprocity in silicon photonics. Nature Photonics, 2021, 15, 43-52.	15.6	105
3	A Thickness-Mode AlGaIn/GaN Resonant Body High Electron Mobility Transistor. IEEE Transactions on Electron Devices, 2014, 61, 1006-1013.	1.6	97
4	Piezoelectrically Transduced Temperature-Compensated Flexural-Mode Silicon Resonators. Journal of Microelectromechanical Systems, 2013, 22, 815-823.	1.7	90
5	Reconfigurable Radios: A Possible Solution to Reduce Entry Costs in Wireless Phones. Proceedings of the IEEE, 2015, 103, 438-451.	16.4	69
6	Miniaturized UWB Filters Integrated With Tunable Notch Filters Using a Silicon-Based Integrated Passive Device Technology. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 518-527.	2.9	66
7	A High-Performance Continuously Tunable MEMS Bandpass Filter at 1 GHz. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2439-2447.	2.9	64
8	Uncooled Infrared Detectors Using Gallium Nitride on Silicon Micromechanical Resonators. Journal of Microelectromechanical Systems, 2014, 23, 803-810.	1.7	63
9	Phonon-Electron Interactions in Piezoelectric Semiconductor Bulk Acoustic Wave Resonators. Scientific Reports, 2014, 4, 5617.	1.6	61
10	Continuously Tunable 0.55-1.9-GHz Bandpass Filter With a Constant Bandwidth Using Switchable Varactor-Tuned Resonators. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 792-803.	2.9	56
11	A Low-Loss Directly Heated Two-Port RF Phase Change Switch. IEEE Electron Device Letters, 2014, 35, 491-493.	2.2	54
12	RF switches using phase change materials. , 2013, , .		48
13	Nanoarchitectonics for Wide Bandgap Semiconductor Nanowires: Toward the Next Generation of Nanoelectromechanical Systems for Environmental Monitoring. Advanced Science, 2020, 7, 2001294.	5.6	48
14	Infrared Absorption Properties of Carbon Nanotube/Nanodiamond Based Thin Film Coatings. Journal of Microelectromechanical Systems, 2014, 23, 191-197.	1.7	47
15	MEMS Switched Tunable Inductors. Journal of Microelectromechanical Systems, 2008, 17, 78-84.	1.7	43
16	Zero-static-power phase-change optical modulator. Optics Letters, 2016, 41, 1177.	1.7	39
17	RF MEMS Passives on High-Resistivity Silicon Substrates. IEEE Microwave and Wireless Components Letters, 2013, 23, 632-634.	2.0	36
18	A Reconfigurable Color Reflector by Selective Phase Change of GeTe in a Multilayer Structure. Advanced Optical Materials, 2019, 7, 1801214.	3.6	34

#	ARTICLE	IF	CITATIONS
19	Gallium nitride-on-silicon micromechanical overtone resonators and filters. , 2011, , .		30
20	Piezoelectrically transduced high-Q silica micro resonators. , 2013, , .		24
21	Optimization of tether geometry to achieve low anchor loss in Lam&#x00E9;-mode resonators. , 2013, , .		24
22	A Temperature-Compensated Gallium Nitride Micromechanical Resonator. IEEE Electron Device Letters, 2014, 35, 1127-1129.	2.2	24
23	Non-Reciprocal Acoustic Transmission in a GaN Delay Line Using the Acoustoelectric Effect. IEEE Electron Device Letters, 2017, 38, 802-805.	2.2	22
24	Monolithic integration of GaN-based micromechanical resonators and HEMTs for timing applications. , 2012, , .		20
25	Characterization of high-Qspiral inductors on thick insulator-on-silicon. Journal of Micromechanics and Microengineering, 2005, 15, 2105-2112.	1.5	19
26	Coupled BAW/SAW Resonators Using AlN/Mo/Si and AlN/Mo/GaN Layered Structures. IEEE Electron Device Letters, 2019, 40, 321-324.	2.2	19
27	Study of Energy Loss Mechanisms in AlN-Based Piezoelectric Length Extensional-Mode Resonators. Journal of Microelectromechanical Systems, 2019, 28, 619-627.	1.7	18
28	Self-powered monolithic accelerometer using a photonic gate. Nano Energy, 2020, 76, 104950.	8.2	18
29	A Multimetal Surface Micromachining Process for Tunable RF MEMS Passives. Journal of Microelectromechanical Systems, 2012, 21, 867-874.	1.7	14
30	A Thin-Film Infrared Absorber using CNT/Nanodiamond Nanocomposite. Materials Research Society Symposia Proceedings, 2012, 1452, 8.	0.1	13
31	Non-Linearity Analysis of RF Ohmic Switches Based on Phase Change Materials. IEEE Electron Device Letters, 2014, 35, 405-407.	2.2	13
32	Ultra-High-Q Gallium Nitride SAW Resonators for Applications With Extreme Temperature Swings. Journal of Microelectromechanical Systems, 2020, 29, 900-905.	1.7	13
33	Observation of the acoustoelectric effect in gallium nitride micromechanical bulk acoustic filters. , 2010, , .		12
34	Solidly Mounted Anti-Symmetric Lamb-Wave Delay Lines as an Alternate to SAW Devices. IEEE Electron Device Letters, 2018, 39, 1916-1919.	2.2	12
35	Wireless Battery-Free SiC Sensors Operating in Harsh Environments Using Resonant Inductive Coupling. IEEE Electron Device Letters, 2019, 40, 609-612.	2.2	12
36	An Integrated 800-MHz Coupled-Resonator Tunable Bandpass Filter in Silver With a Constant Bandwidth. Journal of Microelectromechanical Systems, 2009, 18, 942-949.	1.7	11

#	ARTICLE	IF	CITATIONS
37	Performance measurements and non-linearity modeling of GeTe phase change RF switches with direct and indirect heating schemes. , 2015, , .		11
38	Switchable wide tuning range bandstop filters for frequency-agile radios. , 2011, , .		9
39	Depletion-mediated piezoelectric AlGaIn/GaN resonators. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 3007-3013.	0.8	9
40	Subwavelength plasmonic absorbers for spectrally selective resonant infrared detectors. , 2014, , .		8
41	A tunable 0.6 GHz &#x2013; 1.7 GHz bandpass filter with a constant bandwidth using switchable varactor-tuned resonators. , 2015, , .		8
42	Coupled UHF Micromechanical Ring Resonators With Schottky Transducers. Journal of Microelectromechanical Systems, 2017, 26, 740-742.	1.7	8
43	Low-noise AlN-on-Si resonant infrared detectors using a commercial foundry MEMS fabrication process. , 2015, , .		7
44	Frequency-tunable current-assisted AlGaIn/GaN acoustic resonators. , 2016, , .		7
45	ScAlN/3C-SiC/Si platform for monolithic integration of highly sensitive piezoelectric and piezoresistive devices. Applied Physics Letters, 2020, 116, 132902.	1.5	7
46	Low-loss MEMS band-pass filters with improved out-of-band rejection by exploiting inductive parasitics. , 2009, , .		5
47	GaN Micromechanical Resonators with Meshed Metal Bottom Electrode. Materials, 2015, 8, 1204-1212.	1.3	5
48	An X-band reconfigurable bandpass filter using phase change RF switches. , 2016, , .		5
49	Thermo-Acoustic Engineering of GaN SAW Resonators for Stable Clocks in Extreme Environments. , 2020, , .		5
50	A 1550 NM phase change electro-optical shutter. , 2016, , .		3
51	Lamb wave dispersion in gallium nitride micromechanical resonators. , 2016, , .		2
52	Waveguide Grating Color Reflector Using Germanium Telluride. , 2019, , .		2
53	IEEE JMEMS Special Proceeding for the Hilton Head 2020 Workshop. Journal of Microelectromechanical Systems, 2020, 29, 619-620.	1.7	0
54	Frequency Tunable Surface Acoustic Wave Actuators for Adjustable Pitch Diffraction Grating. Journal of Microelectromechanical Systems, 2020, 29, 699-705.	1.7	0