Sazzadur Chowdhury

List of Publications by Year
in descending order

34 papers	213 citations	1478505 6 h-index	1199594 12 g-index
34 all docs	34 docs citations	34 times ranked	222 citing authors

#	Article	IF	Citations
1	An Investigation of Silica Aerogel to Reduce Acoustic Crosstalk in CMUT Arrays. Sensors, 2021, 21, 1459.	3.8	7
2	A MEMS Ultra-Wideband (UWB) Power Sensor with a Fe-Co-B Core Planar Inductor and a Vibrating Diaphragm Capacitor. Sensors, 2021, 21, 3858.	3.8	6
3	A simple closed-form model to accurately calculate the electromechanical coupling coefficient of CMUTs. TM Technisches Messen, 2021, 88, 714-723.	0.7	1
4	An evaluation of optical profilometry techniques for CMUT characterization. Microsystem Technologies, 2019, 25, 3627-3642.	2.0	4
5	A MEMS Outer Hair Cell (OHC) Implant to Improve Sensorineural Response of a Damaged Cochlea. , 2018, , .		0
6	A Low Cost BCB Based 77 GHz Microstrip Aperture Coupled Antenna Array for Automotive Radars. , 2018, , .		0
7	A new scheme for high frequency ultrasound generation. , 2017, , .		0
8	Experimental Analysis of Bisbenzocyclobutene Bonded Capacitive Micromachined Ultrasonic Transducers. Sensors, 2016, 16, 959.	3.8	11
9	Dynamically Tunable Smart Nanodrug Perspectives: Promises and challenges of nanoparticle-based drug delivery.. IEEE Nanotechnology Magazine, 2016, 10, 29-39.	1.3	0
10	Characterization of adhesive wafer bonded CMUTs realized from BCB based sealed cavity. , 2016, , .		0
11	In-Vehicle Networks Outlook: Achievements and Challenges. IEEE Communications Surveys and Tutorials, 2016, 18, 1552-1571.	39.4	102
12	Resonant frequency calculation of square diaphragms: A comparison. , 2015, , .		1
13	Fabrication and characterization of sealed cavities realized by adhesive wafer bonding with dry etched Cyclotene™. Microsystem Technologies, 2015, 21, 2435-2442.	2.0	5
14	Fabrication of a 77‰GHz Rotman Lens on a High Resistivity Silicon Wafer Using Lift-Off Process. International Journal of Antennas and Propagation, 2014, 2014, 1-9.	1.2	11
15	Cavity formation in bonded silicon wafers using partially cured dry etch bisbenzocyclobutene (BCB). , 2014, , .		1
16	High performance silicon based Rotman lens for automotive radar applications. , 2014, , .		2
17	Capacitance measurements of an SOI based CMUT. , 2013, , .		1
18	Dynamic analysis of an SOI based CMUT. , 2012, , .		7

#	Article	IF	Citations
19	Fabrication and measurements of dynamic response of an SOI based non-planar CMUT array. Microsystem Technologies, 2012, 18, 629-638.	2.0	8
20	An FPGA-based 77 GHZ MEMS radar signal processing system for automotive collision avoidance. , 2011, , .		2
21	An FPGA-based signal processing system for a 77 GHz MEMS tri-mode automotive radar. , 2011, , .		3
22	A new deflection shape function for square membrane CMUT design. , 2010, , .		9
23	A Highly accurate method to calculate capacitance of MEMS sensors with circular membranes. , 2009, , .		8
24	A simple capacitance calculation formula for MEMS capacitive type sensors with square membranes. , 2009, , .		3
25	High performance 77 GHz Single Pole Triple Throw (SP3T) MEMS switch. , 2009, , .		0
26	A Highly Accurate Pull-in Voltage Model for an Atomic Force Microscope Probe. IEEE Sensors Journal, 2009, 9, 1246-1253.	4.7	2
27	Design of a MEMS discretized hyperbolic paraboloid geometry ultrasonic sensor microarray. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2008, 55, 1363-1372.	3.0	10
28	A two-stator MEMS power generator for cardiac pacemakers. , 2008, , .		1
29	MEMS automotive collision avoidance radar beamformer. , 2008, , .		4
30	Design of a PZT-based MEMS Rotman lens. Canadian Conference on Electrical and Computer Engineering, 2008, , .	0.0	2
31	Body-Motion Driven MEMS Generator for Implantable Biomedical Devices. , 2007, , .		1
32	A MEMS Ultra-Stable Short Duration Current Pulse Generator. , 2007, , .		0
33	A MEMS Sonoluminescent Ultrasonic Sensor. , 2006, , .		1
34	A MEMS Non-Planar Constant Beamwidth Ultrasonic Sensor Microarray. , 2006, , .		0