

Douglas A Buchanan

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

109
citations

1307594

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1474206

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13
all docs

13
docs citations

13
times ranked

112
citing authors

#	ARTICLE	IF	CITATIONS
1	Design, Development, and Characterization of a Low Frequency CMUT-Based Anemometer. IEEE Access, 2021, 9, 127735-127741.	4.2	8
2	Design and Characterization of low frequency Capacitive Micromachined Ultrasonic Transducer (CMUT). , 2020, , .		0
3	Analyte discrimination with chemically diverse sensor array based on electrocopolymerized pyrrole and vinyl derivatives. RSC Advances, 2016, 6, 32549-32559.	3.6	2
4	An Air-Coupled Multiple Moving Membrane Micromachined Ultrasonic Transducer With Inverse Biasing Functionality. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1140-1147.	3.0	7
5	Design and Characterization of a Capacitive Micromachined Transducer With a Deflectable Bottom Electrode. IEEE Electron Device Letters, 2015, 36, 612-614.	3.9	15
6	Development of a novel configuration for a MEMS transducer for low bias and high resolution imaging applications. Proceedings of SPIE, 2014, , .	0.8	3
7	Design and Fabrication of a Novel MEMS Capacitive Transducer With Multiple Moving Membrane, $\{mM\}^{\wedge}\{3\}$ -CMUT. IEEE Transactions on Electron Devices, 2014, 61, 890-896.	3.0	16
8	Chemical diversity in electrochemically deposited conducting polymer-based sensor arrays. Sensors and Actuators B: Chemical, 2014, 202, 600-608.	7.8	20
9	Multiple Moving Membrane CMUT With Enlarged Membrane Displacement and Low Pull-Down Voltage. IEEE Electron Device Letters, 2013, 34, 1578-1580.	3.9	20
10	Effect of Low Power Deposition and Low Oxidation Temperature on the Interfacial and Structural Properties of sputtered HfO ₂ Gate Dielectrics. Materials Research Society Symposia Proceedings, 2012, 1394, 108.	0.1	0
11	A MEMS ultrasonic transducer imager array with beam width, acoustic power, and frequency modulations. , 2012, , .		1
12	Angle-of-Arrival Statistics of a Three-Dimensional Geometrical Scattering Channel Model for Indoor and Outdoor Propagation Environments. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 946-949.	4.0	17
13	Work Function Tuning of MoxSiyNz metal gate electrode for Advanced CMOS Technology. Materials Research Society Symposia Proceedings, 2008, 1073, 1.	0.1	0