Anthony J Walton

List of Publications by Year in descending order

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ANTHONY I MALTON

#	Article	IF	CITATIONS
1	Frequency effect on streaming phenomenon induced by Rayleigh surface acoustic wave in microdroplets. Journal of Applied Physics, 2012, 112, .	2.5	50
2	Streaming phenomena in microdroplets induced by Rayleigh surface acoustic wave. Journal of Applied Physics, 2011, 109, 114901.	2.5	48
3	Label- and amplification-free electrochemical detection of bacterial ribosomal RNA. Biosensors and Bioelectronics, 2016, 81, 487-494.	10.1	42
4	Development of a PCR-free electrochemical point of care test for clinical detection of methicillin resistant Staphylococcus aureus (MRSA). Analyst, The, 2013, 138, 6997.	3.5	41
5	A systematic study of the influence of nanoelectrode dimensions on electrode performance and the implications for electroanalysis and sensing. Faraday Discussions, 2013, 164, 295.	3.2	31
6	Real-time measurement of tumour hypoxia using an implantable microfabricated oxygen sensor. Sensing and Bio-Sensing Research, 2020, 30, 100375.	4.2	31
7	The development and characterisation of square microfabricated electrode systems. Analyst, The, 2010, 135, 1058.	3.5	29
8	Integrated Magnetic MEMS Relays: Status of the Technology. Micromachines, 2014, 5, 622-653.	2.9	25
9	Surface acoustic wave nebulization on nanocrystalline ZnO film. Applied Physics Letters, 2012, 101, .	3.3	24
10	Nebulization of water/glycerol droplets generated by ZnO/Si surface acoustic wave devices. Microfluidics and Nanofluidics, 2015, 19, 273-282.	2.2	24
11	Enhanced Electroanalysis in Lithium Potassium Eutectic (LKE) Using Microfabricated Square Microelectrodes. Analytical Chemistry, 2014, 86, 11342-11348.	6.5	21
12	Nanoscale electrode arrays produced with microscale lithographic techniques for use in biomedical sensing applications. IET Nanobiotechnology, 2013, 7, 125-134.	3.8	19
13	A wafer mapping technique for residual stress in surface micromachined films. Journal of Micromechanics and Microengineering, 2016, 26, 095013.	2.6	19
14	Scaling effects on flow hydrodynamics of confined microdroplets induced by Rayleigh surface acoustic wave. Microfluidics and Nanofluidics, 2012, 13, 919-927.	2.2	18
15	Shear horizontal surface acoustic wave induced microfluidic flow. Applied Physics Letters, 2011, 99, .	3.3	14
16	Development and Optimization of Durable Microelectrodes for Quantitative Electroanalysis in Molten Salt. Journal of Microelectromechanical Systems, 2015, 24, 1346-1354.	2.5	14
17	Fabrication and Measurement of Test Structures to Monitor Stress in SU-8 Films. IEEE Transactions on Semiconductor Manufacturing, 2012, 25, 346-354.	1.7	13
18	Advances in electroanalysis, sensing and monitoring in molten salts. Faraday Discussions, 2016, 190, 351-366.	3.2	13

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19	Test Structure for Characterizing Low Voltage Coplanar EWOD System. IEEE Transactions on Semiconductor Manufacturing, 2009, 22, 88-95.	1.7	12
20	Characterisation of electroplated NiFe films using test structures and wafer mapped measurements. , 2011, , .		11
21	Practical Implications of using Nanoelectrodes for Bioanalytical Measurements. Electrochimica Acta, 2014, 126, 98-103.	5.2	11
22	Optimization and characterization of Drop-on-Demand inkjet printing process for platinum organometallic inks. , 2011, , .		10
23	The application of fixed hydrophobic patterns for confinement of aqueous solutions in proteomic microarrays. Applied Physics Letters, 2011, 99, .	3.3	10
24	In vivo application of an implantable tri-anchored methylene blue-based electrochemical pH sensor. Biosensors and Bioelectronics, 2022, 197, 113728.	10.1	9
25	Fabrication of Electrodeposited Ni–Fe Cantilevers for Magnetic MEMS Switch Applications. Journal of Microelectromechanical Systems, 2015, 24, 870-879.	2.5	8
26	Analysis of the performance of a micromechanical test structure to measure stress in thick electroplated metal films. , 2010, , .		7
27	A Microelectrode Array with Reproducible Performance Shows Loss of Consistency Following Functionalization with a Self-Assembled 6-Mercapto-1-hexanol Layer. Sensors, 2018, 18, 1891.	3.8	7
28	Flexible, strain gated logic transducer arrays enabled by initializing surface instability on elastic bilayers. APL Materials, 2019, 7, 031509.	5.1	7
29	<title>Review of the history and technology of micromachined miniature displays using foundry-produced silicon backplanes</title> . , 1999, , .		6
30	Integration of Electrodeposited Ni-Fe in MEMS with Low-Temperature Deposition and Etch Processes. Materials, 2017, 10, 323.	2.9	5
31	Efficient critical area measurements of IC layout applied to quality and reliability enhancement. Microelectronics Reliability, 1997, 37, 1825-1833.	1.7	4
32	A three-dimensional silicon shadowmask for patterning on trenches with vertical walls. , 2009, , .		4
33	Improving the Yield and Lifetime of Microfabricated Sensors for Harsh Environments. IEEE Transactions on Semiconductor Manufacturing, 2017, 30, 192-200.	1.7	4
34	Optimization of Nafion Polymer Electrolyte Membrane Design and Microfabrication. IEEE Transactions on Semiconductor Manufacturing, 2020, 33, 196-201.	1.7	4
35	Test structures for characterising the integration of EWOD and SAW technologies for microfluidics. , 2010, , .		3
36	Electrical Test Structures for the Characterization of Optical Proximity Correction. IEEE Transactions on Semiconductor Manufacturing, 2012, 25, 162-169.	1.7	3

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37	Progress towards filling through silicon vias with conductive ink. , 2012, , .		3
38	Test Structures for Developing Packaging for Implantable Sensors. IEEE Transactions on Semiconductor Manufacturing, 2020, 33, 224-231.	1.7	3
39	Fabrication of test structures to monitor stress in SU-8 films used for MEMS applications. , 2010, , .		2
40	Test structures for seed layer optimisation of electroplated ferromagnetic films. , 2018, , .		2
41	Test Structure for Measuring the Selectivity in Vapour Etch Processes. , 2020, , .		2
42	Comparison of Conventional and Maskless Lithographic Techniques for More than Moore Post-Processing of Foundry CMOS Chips. Journal of Microelectromechanical Systems, 2020, 29, 1245-1252.	2.5	2
43	Manipulating Etch Selectivities in XeFâ,, Vapour Etching. Journal of Microelectromechanical Systems, 2021, 30, 156-164.	2.5	2
44	Test Structure for Measuring the Selectivity in XeF2 and HF Vapour Etch Processes. IEEE Transactions on Semiconductor Manufacturing, 2021, 34, 241-247.	1.7	2
45	Kelvin resistor structures for the investigation of corner serif Proximity Correction. , 2010, , .		1
46	Test structures and a measurement system for characterising the lifetime of EWOD devices. , 2011, , .		1
47	The Use of Test Structures to Perform Chip Level Characterization Studies of Ni and NiFe Electrochemical Deposition. IEEE Transactions on Semiconductor Manufacturing, 2017, 30, 243-253.	1.7	1
48	10.1063/1.3604395.1., 2011,,.		1
49	Interdigitated electrode modelling for applications in dielectrophoresis. , 2011, , .		0
50	Investigating the durability of electrochemical sensors for molten salts. , 2017, , .		0
51	Metal-Elastomer Surface Deformation Control on Super-Compressible Strain Transducer Arrays. , 2018, , .		0
52	Test structure and measurement system for characterising the electrochemical performance of nanoelectrode structures. , 2020, , .		0
53	Automated Wafer-Level Characterisation of Electrochemical Test Structures for Wafer Scanning. , 2020, , .		0
54	Microheater isolation characterisation to aid the optimisation of a MEMS Leidenfrost engine. , 2020, , .		0