

# David Hutson

## List of Publications by Year in descending order

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18  
papers

178  
citations

1163065

8  
h-index

1058452

14  
g-index

18  
all docs

18  
docs citations

18  
times ranked

219  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable stacked array piezoelectric deformable mirror for astronomy and laser processing applications. Review of Scientific Instruments, 2014, 85, 024502.	1.3	43
2	AlN thin film transducers for high temperature non-destructive testing applications. Journal of Applied Physics, 2012, 111, .	2.5	26
3	Electrochromic bilayers of Prussian blue and its Cr analogue. Journal of Materials Chemistry C, 2018, 6, 512-517.	5.5	25
4	Use of sputtered zinc oxide film on aluminium foil substrate to produce a flexible and low profile ultrasonic transducer. Ultrasonics, 2016, 68, 54-60.	3.9	20
5	Use of mass loading to operate a thin film ultrasonic transducer in the 300 kHzâ€“10 MHz frequency range. Journal of Electroceramics, 2011, 27, 29-32.	2.0	13
6	Microfabrication of electrode patterns for high-frequency ultrasound transducer arrays. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2012, 59, 1820-1829.	3.0	12
7	Characterization of an epoxy filler for piezocomposites compatible with microfabrication processes [Correspondence]. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 2743-2748.	3.0	9
8	Progress towards waferâ€“scale fabrication of ultrasound arrays for realâ€“time highâ€“resolution biomedical imaging. Sensor Review, 2009, 29, 333-338.	1.8	8
9	Concepts and issues in piezoâ€“onâ€“3D silicon structures. Sensor Review, 2009, 29, 326-332.	1.8	7
10	Breath emulator for simulation and modelling of expired tidal breath carbon dioxide characteristics. Computer Methods and Programs in Biomedicine, 2021, 200, 105826.	4.7	5
11	Operation of a high frequency piezoelectric ultrasound array with an application specific integrated circuit. , 2009, , .		4
12	Extension sensing of piezo actuators using time-domain ultrasonic measurement and frequency-domain impedance measurement. Journal of Electroceramics, 2011, 27, 38-44.	2.0	3
13	Novel technologies for small deformable mirrors. Proceedings of SPIE, 2010, , .	0.8	1
14	Electrical and optical characterisation of aluminium nitride piezoelectric films on silicon nitride membranes. Journal of Electroceramics, 2011, 27, 33-37.	2.0	1
15	Overcoming hysteresis in multilayered piezoceramic actuators used in adaptive optics. Proceedings of SPIE, 2012, , .	0.8	1
16	Thickness optimization of AlN thin films deposited by RF Magnetron Sputtering. , 2012, , .		0
17	High frequency dental imaging and in-vitro monitoring of acid dental erosion. , 2014, , .		0
18	Mid-infrared optical coatings with improved transparency for 3 to 6 $\frac{1}{4}$ m spectral region using sputtered silicon and oxide films. Proceedings of SPIE, 2015, , .	0.8	0