

Andrew Feeney

List of Publications by Year in descending order

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39
papers

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citations

933447

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all docs

39
docs citations

39
times ranked

243
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric energy harvesting for self-powered wearable upper limb applications. Nano Select, 2021, 2, 1459-1479.	3.7	72
2	A cymbal transducer for power ultrasonics applications. Sensors and Actuators A: Physical, 2014, 210, 182-189.	4.1	31
3	Development status of AEOLDOS – A deorbit module for small satellites. Advances in Space Research, 2014, 54, 82-91.	2.6	29
4	An ultrasonic orthopaedic surgical device based on a cymbal transducer. Ultrasonics, 2016, 72, 24-33.	3.9	28
5	High-Frequency Measurement of Ultrasound Using Flexural Ultrasonic Transducers. IEEE Sensors Journal, 2018, 18, 5238-5244.	4.7	22
6	The electro-mechanical behaviour of flexural ultrasonic transducers. Applied Physics Letters, 2017, 110, .	3.3	21
7	The Dynamic Performance of Flexural Ultrasonic Transducers. Sensors, 2018, 18, 270.	3.8	18
8	Dynamic Nonlinearity in Piezoelectric Flexural Ultrasonic Transducers. IEEE Sensors Journal, 2019, 19, 6056-6066.	4.7	16
9	Nonlinearity in the Dynamic Response of Flexural Ultrasonic Transducers. , 2018, 2, 1-4.		14
10	The High Frequency Flexural Ultrasonic Transducer for Transmitting and Receiving Ultrasound in Air. IEEE Sensors Journal, 2020, 20, 7653-7660.	4.7	14
11	Flow Velocity Measurement Using a Spatial Averaging Method with Two-Dimensional Flexural Ultrasonic Array Technology. Sensors, 2019, 19, 4786.	3.8	12
12	Smart cymbal transducers with nitinol end caps tunable to multiple operating frequencies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2014, 61, 1709-1719.	3.0	10
13	Additive Manufacture of Small-Scale Metamaterial Structures for Acoustic and Ultrasonic Applications. Micromachines, 2021, 12, 634.	2.9	10
14	A Comparison of Two Configurations for a Dual-Resonance Cymbal Transducer. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 489-496.	3.0	8
15	Ultrasonic compaction of granular geological materials. Ultrasonics, 2017, 76, 136-144.	3.9	7
16	The Influence of Air Pressure on the Dynamics of Flexural Ultrasonic Transducers. Sensors, 2019, 19, 4710.	3.8	7
17	Differential scanning calorimetry of superelastic Nitinol for tunable cymbal transducers. Journal of Intelligent Material Systems and Structures, 2016, 27, 1376-1387.	2.5	5
18	Venting in the Comparative Study of Flexural Ultrasonic Transducers to Improve Resilience at Elevated Environmental Pressure Levels. IEEE Sensors Journal, 2020, 20, 5776-5784.	4.7	4

#	ARTICLE	IF	CITATIONS
19	Dynamics Characterisation of Cymbal Transducers for Power Ultrasonics Applications. Physics Procedia, 2016, 87, 29-34.	1.2	3
20	A Miniaturized Class IV Flextensional Ultrasonic Transducer. Physics Procedia, 2016, 87, 10-15.	1.2	3
21	Flow measurement based on two-dimensional flexural ultrasonic phased arrays. Proceedings of Meetings on Acoustics, 2017, , .	0.3	3
22	Wideband electromagnetic dynamic acoustic transducers (WEMDATs) for air-coupled ultrasonic applications. Applied Physics Letters, 2019, 114, .	3.3	3
23	A Novel Mathematical Model for Transit-time Ultrasonic Flow Measurement. , 2019, , .		3
24	Active damping of ultrasonic receiving sensors through engineered pressure waves. Journal Physics D: Applied Physics, 2021, 54, 13LT01.	2.8	3
25	Design and Dynamics of Oil Filled Flexural Ultrasonic Transducers for Elevated Pressures. IEEE Sensors Journal, 2022, 22, 12673-12680.	4.7	3
26	Vibration characterisation of cymbal transducers for power ultrasonic applications. Journal of Physics: Conference Series, 2012, 382, 012063.	0.4	2
27	Dynamic characteristics of flexural ultrasonic transducers. Proceedings of Meetings on Acoustics, 2017, , .	0.3	2
28	Analysis of Influence of Inconsistent Performances of Array Elements on Flexural Ultrasonic Phased Array for Measurement of Ultrasound in Fluids. , 2018, , .		2
29	Ultrasonic biopsy needle based on the class IV flextensional configuration. , 2015, , .		1
30	An Ultrasonic Compactor for Oil and Gas Exploration. Physics Procedia, 2016, 87, 72-78.	1.2	1
31	Measurement using flexural ultrasonic transducers in high pressure environments. Proceedings of Meetings on Acoustics, 2019, , .	0.3	1
32	Higher order modal dynamics of the flexural ultrasonic transducer. Journal Physics D: Applied Physics, 2022, 55, 07LT01.	2.8	1
33	Smart cymbal transducers with Nitinol end-caps for power ultrasonics applications. , 2013, , .		0
34	Optimisation of a Cymbal Transducer for Its Use in a High-power Ultrasonic Cutting Device for Bone Surgery. Physics Procedia, 2016, 87, 35-41.	1.2	0
35	HiFFUTs for high temperature ultrasound. Proceedings of Meetings on Acoustics, 2017, , .	0.3	0
36	Two-dimensional flexural ultrasonic phased array for flow measurement. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	The nonlinear dynamics of flexural ultrasonic transducers. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0
38	Wideband Electromagnetic Dynamic Acoustic Transducer as a Standard Acoustic Source for Air-coupled Ultrasonic Sensors. , 2019, , .		0
39	An Investigation of the Vibration Response of a Superelastic Nitinol Cymbal Transducer. , 0, , .		0