Timothy Ulrich

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8837277/publications.pdf

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17	369	933447 10	888059 17
papers	citations	h-index	g-index

21	21	21	325
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Interaction Dynamics of Elastic Waves with a Complex Nonlinear Scatterer through the Use of a Time Reversal Mirror. Physical Review Letters, 2007, 98, 104301.	7.8	115
2	Resonant ultrasound spectroscopy for materials with high damping and samples of arbitrary geometry. Journal of Geophysical Research: Solid Earth, 2015, 120, 4898-4916.	3.4	48
3	Decoupling Nonclassical Nonlinear Behavior of Elastic Wave Types. Physical Review Letters, 2016, 116, 115501.	7.8	46
4	Dynamic Acousto-Elasticity in a Fatigue-Cracked Sample. Journal of Nondestructive Evaluation, 2014, 33, 216-225.	2.4	34
5	Propagation of a Finiteâ€Amplitude Elastic Pulse in a Bar of Berea Sandstone: A Detailed Look at the Mechanisms of Classical Nonlinearity, Hysteresis, and Nonequilibrium Dynamics. Journal of Geophysical Research: Solid Earth, 2017, 122, 8892-8909.	3.4	28
6	Nonlinear elasticity in rocks: A comprehensive three-dimensional description. Physical Review Materials, 2017, 1, .	2.4	25
7	Optimized Dynamic Acousto-elasticity Applied to Fatigue Damage and Stress Corrosion Cracking. Journal of Nondestructive Evaluation, 2014, 33, 226-238.	2.4	21
8	Experimentally identifying masked sources applying time reversal with the selective source reduction method. Journal of Applied Physics, 2009, 105, 083506.	2.5	11
9	From local to global measurements of nonclassical nonlinear elastic effects in geomaterials. Journal of the Acoustical Society of America, 2016, 140, EL231-EL235.	1.1	11
10	Improving the air coupling of bulk piezoelectric transducers with wedges of power-law profiles: A numerical study. Ultrasonics, 2014, 54, 1409-1416.	3.9	10
11	Ultrasonic radiation from wedges of cubic profile: Experimental results. Ultrasonics, 2015, 63, 141-146.	3.9	7
12	Depth profile of a time-reversal focus in an elastic solid. Ultrasonics, 2015, 58, 60-66.	3.9	5
13	Imaging crack orientation using the time reversed elastic nonlinearity diagnostic with three component time reversal. Proceedings of Meetings on Acoustics, 2013, , .	0.3	3
14	Improving the focal quality of the time reversal acoustic noncontact source using a deconvolution operation. Proceedings of Meetings on Acoustics, 2013, , .	0.3	2
15	Imaging and Characterizing Damage Using Time Reversed Acoustics. AIP Conference Proceedings, 2007, , .	0.4	1
16	From force chains to nonclassical nonlinear dynamics in cemented granular materials. Physical Review E, 2022, 105, L022901.	2.1	1
17	Finite-element-based resonant ultrasound spectroscopy for measurement of multi-material samples. Journal of the Acoustical Society of America, 2022, 151, 3633-3640.	1.1	1