

Timothy Ulrich

List of Publications by Year in descending order

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17
papers

369
citations

933447

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888059

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21
all docs

21
docs citations

21
times ranked

325
citing authors

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