Andriejus DemÄenko

List of Publications by Year
in descending order

29	421	933447 10	996975 15
papers	citations	h-index	g-index

30	30	30	363
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Air-coupled ultrasonic investigation of multi-layered composite materials. Ultrasonics, 2006, 44, e819-e822.	3.9	86
2	Non-collinear wave mixing for non-linear ultrasonic detection of physical ageing in PVC. NDT and E International, 2012, 49, 34-39.	3.7	65
3	Possible second-order nonlinear interactions of plane waves in an elastic solid. Journal of the Acoustical Society of America, 2014, 135, 591-598.	1.1	61
4	Noncollinear wave mixing for measurement of dynamic processes in polymers: Physical ageing in thermoplastics and epoxy cure. Ultrasonics, 2014, 54, 684-693.	3.9	38
5	A study of the noncollinear ultrasonic-wave-mixing technique under imperfect resonance conditions. Ultrasonics, 2015, 57, 179-189.	3.9	30
6	3D Analysis of interaction of Lamb waves with defects in loaded steel plates. Ultrasonics, 2006, 44, e1127-e1130.	3.9	27
7	Holographic detection of nanoparticles using acoustically actuated nanolenses. Nature Communications, 2020, 11, 171.	12.8	26
8	Isothermal epoxy-cure monitoring using nonlinear ultrasonics. International Journal of Adhesion and Adhesives, 2014, 52, 11-18.	2.9	21
9	Ultrasonic measurements of undamaged concrete layer thickness in a deteriorated concrete structure. NDT and E International, 2016, 77, 63-72.	3.7	20
10	Air-coupled ultrasonic non-destructive testing of aerospace components. Insight: Non-Destructive Testing and Condition Monitoring, 2007, 49, 195-199.	0.6	11
11	On the measurement of the Youngâ€™s modulus of small samples by acoustic interferometry. Journal of the Acoustical Society of America, 2005, 118, 832-840.	1.1	8
12	Breaking the Symmetry of Momentum Conservation Using Evanescent Acoustic Fields. Physical Review Letters, 2018, 121, 244301.	7.8	7
13	Computational Image Analysis of Guided Acoustic Waves Enables Rheological Assessment of Sub-nanoliter Volumes. ACS Nano, 2019, 13, 11062-11069.	14.6	5
14	Vehicle’s steering signal predictions using neural networks. , 2008, , .		4
15	Non-collinear wave mixing for a bulk wave phase velocity measurement in an isotropic solid. , 2012, , .		3
16	Investigation of PVC physical ageing in field test specimens using ultrasonic and dielectric measurements. , 2012, , .		3
17	Hyperelastic Tuning of One-Dimensional Phononic Band Gaps Using Directional Stress. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1056-1061.	3.0	3
18	Measurement of the A₀ mode phase velocity in GLARE3-3/2 composite with air-coupled ultrasonic techniques. Insight: Non-Destructive Testing and Condition Monitoring, 2005, 47, 163-167.	0.6	1

#	Article	IF	Citations
19	Green-function Method for Nonlinear Interactions of Elastic Waves. , 2019, , .		1
20	Ultrasonic Wave Mixing for Nonlinear Ultrasonics in a Microfluidic Capillary. , 2019, , .		1
21	Steering angle prediction using neural networks and look-up table for different drivers. , 2009, , .		0
22	Estimation of Lane Marker Parameters With High Correlation to Steering Signal. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 962-967.	8.0	0
23	Ultrasonic waves in uniaxially stressed multilayered and one-dimensional phononic structures: Guided and Floquet wave analysis. Journal of the Acoustical Society of America, 2018, 144, 81-91.	1.1	0
24	Non-Classical Second-Order Nonlinear Elastic Wave Interactions. , 2019, , .		0
25	Application of guided ultrasonic waves for inspection of fuel tank floor. , 0, , .		0
26	Ultrasonic waves in biaxially stressed multi-layered and 1D phononic structures (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462 T		0
27	2D numerical model for analysis of possible second-order interactions of ultrasonic waves with a presence of fluid and solid interface (Conference Presentation). , 2017, , .		0
28	Holographic Microscopy with Acoustic Modulation for Detection of Nano-sized Particles and Pathogens in Solution. , 2019, , .		0
29	Lens-free Microscopy Using Acoustically Actuated Nanolenses and its Applications. , 2019, , .		0