

Yoshikazu Ohara

List of Publications by Year in descending order

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44
papers

1,034
citations

361413

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44
all docs

44
docs citations

44
times ranked

315
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging of closed cracks using nonlinear response of elastic waves at subharmonic frequency. Applied Physics Letters, 2007, 90, 011902.	3.3	115
2	Effect of adhesion force between crack planes on subharmonic and DC responses in nonlinear ultrasound. Ultrasonics, 2006, 44, 194-199.	3.9	81
3	Ultrasonic Evaluation of Closed Cracks Using Subharmonic Phased Array. Japanese Journal of Applied Physics, 2008, 47, 3908.	1.5	80
4	Nonlinear ultrasonic imaging method for closed cracks using subtraction of responses at different external loads. Ultrasonics, 2011, 51, 661-666.	3.9	50
5	Ultrasonic Measurement of Closed Stress Corrosion Crack Depth Using Subharmonic Phased Array. Japanese Journal of Applied Physics, 2009, 48, 07GD01.	1.5	46
6	Detection of Internal Micro Defects by Nonlinear Resonant Ultrasonic Method Using Water Immersion. Japanese Journal of Applied Physics, 2004, 43, 3119-3120.	1.5	44
7	Improvement of Closed Crack Selectivity in Nonlinear Ultrasonic Imaging Using Fundamental Wave Amplitude Difference. Japanese Journal of Applied Physics, 2013, 52, 07HC08.	1.5	42
8	Dynamic Acousto-Elasticity in a Fatigue-Cracked Sample. Journal of Nondestructive Evaluation, 2014, 33, 216-225.	2.4	34
9	Closed-crack imaging and scattering behavior analysis using confocal subharmonic phased array. Japanese Journal of Applied Physics, 2015, 54, 07HC08.	1.5	33
10	Two-Dimensional Analyses of Subharmonic Generation at Closed Cracks in Nonlinear Ultrasonics. Applied Physics Express, 2011, 4, 076601.	2.4	32
11	Simulation and Analysis of Subharmonics and Tail Effect for Ultrasonic Nondestructive Evaluation of Closed Cracks. Japanese Journal of Applied Physics, 2005, 44, 4389-4393.	1.5	31
12	High-selectivity imaging of closed cracks using elastic waves with thermal stress induced by global preheating and local cooling. Applied Physics Letters, 2013, 103, .	3.3	27
13	Ultrasonic phased array with surface acoustic wave for imaging cracks. AIP Advances, 2017, 7, .	1.3	27
14	Dynamic acousto-elastic response of single fatigue cracks with different microstructural features: An experimental investigation. Journal of Applied Physics, 2018, 124, .	2.5	27
15	Enhancement of Selectivity in Nonlinear Ultrasonic Imaging of Closed Cracks Using Amplitude Difference Phased Array. Japanese Journal of Applied Physics, 2012, 51, 07GB18.	1.5	26
16	High-selectivity imaging of closed cracks in a coarse-grained stainless steel by nonlinear ultrasonic phased array. NDT and E International, 2017, 91, 139-147.	3.7	25
17	Analysis on Nonlinear Ultrasonic Images of Vertical Closed Cracks by Damped Double Node Model. Materials Transactions, 2014, 55, 1017-1023.	1.2	24
18	Nonlinear ultrasonic phased array with fixed-voltage fundamental wave amplitude difference for high-selectivity imaging of closed cracks. Journal of the Acoustical Society of America, 2019, 146, 266-277.	1.1	24

#	ARTICLE	IF	CITATIONS
19	Subharmonic phased array for crack evaluation using surface acoustic wave. Japanese Journal of Applied Physics, 2015, 54, 07HC05.	1.5	23
20	Optimized Dynamic Acousto-elasticity Applied to Fatigue Damage and Stress Corrosion Cracking. Journal of Nondestructive Evaluation, 2014, 33, 226-238.	2.4	21
21	Toward an ultra-high resolution phased-array system for 3D ultrasonic imaging of solids. Applied Physics Letters, 2020, 117, .	3.3	21
22	Fundamental wave amplitude difference imaging for detection and characterization of embedded cracks. Ultrasonics, 2019, 96, 132-139.	3.9	20
23	Enhancement of Selectivity in Nonlinear Ultrasonic Imaging of Closed Cracks Using Amplitude Difference Phased Array. Japanese Journal of Applied Physics, 2012, 51, 07GB18.	1.5	19
24	Evaluation of Closed Stress Corrosion Cracks in Ni-Based Alloy Weld Metal Using Subharmonic Phased Array. Japanese Journal of Applied Physics, 2012, 51, 07GB15.	1.5	18
25	Nonlinear surface-acoustic-wave phased array with fixed-voltage fundamental wave amplitude difference for imaging closed cracks. NDT and E International, 2019, 108, 102170.	3.7	18
26	Multi-mode nonlinear ultrasonic phased array for imaging closed cracks. Japanese Journal of Applied Physics, 2019, 58, SGGB06.	1.5	18
27	Imaging of three-dimensional crack open/closed distribution by nonlinear ultrasonic phased array based on fundamental wave amplitude difference. Japanese Journal of Applied Physics, 2020, 59, SKKB01.	1.5	18
28	Evaluation of crack closure stress by analyses of ultrasonic phased array images during global preheating and local cooling. Japanese Journal of Applied Physics, 2014, 53, 07KC20.	1.5	17
29	High-Selectivity Ultrasonic Imaging of Closed Cracks Using Global Preheating and Local Cooling. Materials Transactions, 2014, 55, 1003-1010.	1.2	13
30	Experimental analysis of linear and nonlinear ultrasonic scatterings at closed fatigue crack using fixed-voltage fundamental wave amplitude difference with radarlike display. Japanese Journal of Applied Physics, 2021, 60, SDDB01.	1.5	12
31	Evaluation of Closed Stress Corrosion Cracks in Ni-Based Alloy Weld Metal Using Subharmonic Phased Array. Japanese Journal of Applied Physics, 2012, 51, 07GB15.	1.5	9
32	High-resolution 3D phased-array imaging of fatigue cracks using piezoelectric and laser ultrasonic system (PLUS). Japanese Journal of Applied Physics, 2022, 61, SG1044.	1.5	8
33	High-Selectivity imaging of the closed fatigue crack due to thermal environment using surface-acoustic-wave phased array (SAW PA). Ultrasonics, 2022, 119, 106629.	3.9	7
34	Development of Low-Frequency Phased Array for Imaging Defects in Concrete Structures. Sensors, 2021, 21, 7012.	3.8	6
35	Ultrafast phased-array imaging with pump excitation for closed-crack imaging. Applied Physics Express, 2021, 14, 126505.	2.4	6
36	Exploring 3D elastic-wave scattering at interfaces using high-resolution phased-array system. Scientific Reports, 2022, 12, .	3.3	4

#	ARTICLE	IF	CITATIONS
37	Dark-field ultrasonic imaging method using mode-converted longitudinal evanescent field. Japanese Journal of Applied Physics, 2022, 61, SG1042.	1.5	3
38	Multi-mode nonlinear ultrasonic phased array for closed crack imaging. Proceedings of Meetings on Acoustics, 2018, , .	0.3	2
39	Subharmonic Phased Array for Crack Evaluation (SPACE). , 2019, , 419-469.		2
40	Nonlinear ultrasonic phased array imaging of closed cracks using global preheating and local cooling. AIP Conference Proceedings, 2015, , .	0.4	1
41	Formation and evaluation of closed stress corrosion cracks in Ni-based alloy weld metal for nuclear power plants. , 2012, , .		0
42	Development of Nonlinear Ultrasonic Imaging Method for Accurate Measurement of Closed Cracks. Materia Japan, 2014, 53, 100-103.	0.1	0
43	143 Mechanism of Nonlinear Ultrasonic Generation by Transmitting System of Ultrasound with Large Amplitude Using Superconducting Magnet. The Proceedings of Conference of Tohoku Branch, 2018, 2018.53, 83-84.	0.0	0
44	Nonlinear Ultrasonic Phased Array for Measurement of Closed-Crack Depth. Springer Series in Measurement Science and Technology, 2020, , 165-234.	0.8	0