

Yoshikazu Ohara

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,034
citations

361413

20
h-index

414414

32
g-index

44
all docs

44
docs citations

44
times ranked

315
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Exploring 3D elastic-wave scattering at interfaces using high-resolution phased-array system. Scientific Reports, 2022, 12, .	3.3	4
3	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
4	Dark-field ultrasonic imaging method using mode-converted longitudinal evanescent field. Japanese Journal of Applied Physics, 2022, 61, SG1042.	1.5	3
5	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
6	Development of Low-Frequency Phased Array for Imaging Defects in Concrete Structures. Sensors, 2021, 21, 7012.	3.8	6
7	Ultrafast phased-array imaging with pump excitation for closed-crack imaging. Applied Physics Express, 2021, 14, 126505.	2.4	6
8	Toward an ultra-high resolution phased-array system for 3D ultrasonic imaging of solids. Applied Physics Letters, 2020, 117, .	3.3	21
9	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
10	Nonlinear Ultrasonic Phased Array for Measurement of Closed-Crack Depth. Springer Series in Measurement Science and Technology, 2020, , 165-234.	0.8	0
11	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
12	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
13	Multi-mode nonlinear ultrasonic phased array for imaging closed cracks. Japanese Journal of Applied Physics, 2019, 58, SGGB06.	1.5	18
14	Fundamental wave amplitude difference imaging for detection and characterization of embedded cracks. Ultrasonics, 2019, 96, 132-139.	3.9	20
15	Subharmonic Phased Array for Crack Evaluation (SPACE). , 2019, , 419-469.		2
16	Multi-mode nonlinear ultrasonic phased array for closed crack imaging. Proceedings of Meetings on Acoustics, 2018, , .	0.3	2
17	Dynamic acousto-elastic response of single fatigue cracks with different microstructural features: An experimental investigation. Journal of Applied Physics, 2018, 124, .	2.5	27
18	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

#	ARTICLE	IF	CITATIONS
19	Ultrasonic phased array with surface acoustic wave for imaging cracks. AIP Advances, 2017, 7, .	1.3	27
20	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
21	Subharmonic phased array for crack evaluation using surface acoustic wave. Japanese Journal of Applied Physics, 2015, 54, 07HC05.	1.5	23
22	Nonlinear ultrasonic phased array imaging of closed cracks using global preheating and local cooling. AIP Conference Proceedings, 2015, , .	0.4	1
23	Closed-crack imaging and scattering behavior analysis using confocal subharmonic phased array. Japanese Journal of Applied Physics, 2015, 54, 07HC08.	1.5	33
24	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
25	Optimized Dynamic Acousto-elasticity Applied to Fatigue Damage and Stress Corrosion Cracking. Journal of Nondestructive Evaluation, 2014, 33, 226-238.	2.4	21
26	Dynamic Acousto-Elasticity in a Fatigue-Cracked Sample. Journal of Nondestructive Evaluation, 2014, 33, 216-225.	2.4	34
27	Development of Nonlinear Ultrasonic Imaging Method for Accurate Measurement of Closed Cracks. Materia Japan, 2014, 53, 100-103.	0.1	0
28	Analysis on Nonlinear Ultrasonic Images of Vertical Closed Cracks by Damped Double Node Model. Materials Transactions, 2014, 55, 1017-1023.	1.2	24
29	High-Selectivity Ultrasonic Imaging of Closed Cracks Using Global Preheating and Local Cooling. Materials Transactions, 2014, 55, 1003-1010.	1.2	13
30	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
31	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
32	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
33	Formation and evaluation of closed stress corrosion cracks in Ni-based alloy weld metal for nuclear power plants. , 2012, , .		0
34	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
35	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
36	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

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37	Two-Dimensional Analyses of Subharmonic Generation at Closed Cracks in Nonlinear Ultrasonics. Applied Physics Express, 2011, 4, 076601.	2.4	32
38	Nonlinear ultrasonic imaging method for closed cracks using subtraction of responses at different external loads. Ultrasonics, 2011, 51, 661-666.	3.9	50
39	Ultrasonic Measurement of Closed Stress Corrosion Crack Depth Using Subharmonic Phased Array. Japanese Journal of Applied Physics, 2009, 48, 07GD01.	1.5	46
40	Ultrasonic Evaluation of Closed Cracks Using Subharmonic Phased Array. Japanese Journal of Applied Physics, 2008, 47, 3908.	1.5	80
41	Imaging of closed cracks using nonlinear response of elastic waves at subharmonic frequency. Applied Physics Letters, 2007, 90, 011902.	3.3	115
42	Effect of adhesion force between crack planes on subharmonic and DC responses in nonlinear ultrasound. Ultrasonics, 2006, 44, 194-199.	3.9	81
43	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
44	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