

Xiaokang Yin

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

684
citations

623734

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all docs

60
docs citations

60
times ranked

352
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Dual-Mode Sensor for the Detection of Interface Flaw in Insulator-Conductor Composite Structures. IEEE Sensors Journal, 2023, 23, 4568-4576.	4.7	2
2	Visual and Intelligent Identification Methods for Defects in Underwater Structure Using Alternating Current Field Measurement Technique. IEEE Transactions on Industrial Informatics, 2022, 18, 3853-3862.	11.3	17
3	Visual Inspection of Irregular Cracks in Steel Structure by Double Gradient Fusion Algorithm Using Alternating Current Field Measurement Technique. IEEE Sensors Journal, 2022, 22, 8881-8890.	4.7	4
4	A novel fatigue crack angle quantitative monitoring method based on rotating alternating current field measurement. Measurement: Journal of the International Measurement Confederation, 2022, 195, 111101.	5.0	4
5	Retrieving dimensions of surface features on conductors covered by insulation using the maximum Variation Ratio (MVR) in capacitive imaging. NDT and E International, 2021, 117, 102384.	3.7	7
6	Detection System Development of Drill Pipe Thread Based on ACFM Technique. IEEE Sensors Journal, 2021, 21, 23926-23933.	4.7	5
7	Monocular stereo vision based method for validating path accuracy of industrial robots. , 2021, , .		1
8	A Combined Inductive and Capacitive Non-Destructive Evaluation Technique Using a Single Spiral Coil Sensor. IEEE Sensors Journal, 2021, 21, 18187-18196.	4.7	10
9	Capacitive imaging using fused amplitude and phase information for improved defect detection. NDT and E International, 2021, 124, 102547.	3.7	7
10	Camera-Mirror Binocular Vision-Based Method for Evaluating the Performance of Industrial Robots. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	10
11	A capacitive-inductive dual modality imaging system for non-destructive evaluation applications. Mechanical Systems and Signal Processing, 2020, 135, 106403.	8.0	12
12	DoF-Dependent and Equal-Partition Based Lens Distortion Modeling and Calibration Method for Close-Range Photogrammetry. Sensors, 2020, 20, 5934.	3.8	3
13	Coiled Tubing Wall Thickness Evaluation System Using Pulsed Alternating Current Field Measurement Technique. IEEE Sensors Journal, 2020, 20, 10495-10501.	4.7	9
14	Corrosion Depth Inversion Method Based on the Lift-Off Effect of the Capacitive Imaging (CI) Technique. IEEE Access, 2020, 8, 22770-22779.	4.2	9
15	Identification of Tiny Surface Cracks in a Rugged Weld by Signal Gradient Algorithm Using the ACFM Technique. Sensors, 2020, 20, 380.	3.8	8
16	An improved method of eddy current pulsed thermography to detect subsurface defects in glass fiber reinforced polymer composites. Composite Structures, 2020, 242, 112145.	5.8	17
17	Inspection of both inner and outer cracks in aluminum tubes using double frequency circumferential current field testing method. Mechanical Systems and Signal Processing, 2019, 127, 16-34.	8.0	18
18	Capacitive Imaging Technique for the Inspection of Composite Sucker Rod. Chinese Journal of Mechanical Engineering (English Edition), 2019, 32, .	3.7	8

#	ARTICLE	IF	CITATIONS
19	Inner circumferential current field testing system with TMR sensor arrays for inner-wall cracks inspection in aluminum tubes. Measurement: Journal of the International Measurement Confederation, 2018, 122, 232-239.	5.0	18
20	Two-Step Interpolation Algorithm for Measurement of Longitudinal Cracks on Pipe Strings Using Circumferential Current Field Testing System. IEEE Transactions on Industrial Informatics, 2018, 14, 394-402.	11.3	29
21	Investigation of optimal time-domain feature for non-surface defect detection through a pulsed alternating current field measurement technique. Measurement Science and Technology, 2018, 29, 015601.	2.6	7
22	Lift-off Effect for Capacitive Imaging Sensors. Sensors, 2018, 18, 4286.	3.8	12
23	Further Investigations into the Capacitive Imaging Technique Using a Multi-Electrode Sensor. Applied Sciences (Switzerland), 2018, 8, 2296.	2.5	6
24	Detection and evaluation of weld defects in stainless steel using alternating current field measurement. AIP Conference Proceedings, 2018, , .	0.4	1
25	Positive and negative variations in capacitive images for given defects under varying experimental conditions. AIP Conference Proceedings, 2018, , .	0.4	0
26	Bobbin Coil Probe With Sensor Arrays for Imaging and Evaluation of Longitudinal Cracks Inside Aluminum Tubes. IEEE Sensors Journal, 2018, 18, 6774-6781.	4.7	11
27	Performance evaluation of capacitive imaging sensors with different geometries. Insight: Non-Destructive Testing and Condition Monitoring, 2018, 60, 676-684.	0.6	5
28	Magnetic compression effect for the enhancement of crack response signals in non-ferromagnetic conductive tubes. Insight: Non-Destructive Testing and Condition Monitoring, 2018, 60, 542-546.	0.6	0
29	Circumferential current field testing system with TMR sensor array for non-contact detection and estimation of cracks on power plant piping. Sensors and Actuators A: Physical, 2017, 263, 542-553.	4.1	13
30	Multiple type defect detection in pipe by Helmholtz electromagnetic array probe. NDT and E International, 2017, 91, 97-107.	3.7	14
31	An Electromagnetic Helmholtz-Coil Probe for Arbitrary Orientation Crack Detection on the Surface of Pipeline. Materials Transactions, 2017, 58, 641-645.	1.2	2
32	Circumferential Current Field Testing Method for Innerwall Cracks Detection in Aluminum Tube. , 2017, , .		0
33	Analysis of signals for inclined crack detection through alternating current field measurement with a U-shaped probe. Insight: Non-Destructive Testing and Condition Monitoring, 2017, 59, 121-128.	0.6	16
34	Frequency optimisation of circumferential current field testing system for highly-sensitive detection of longitudinal cracks on a pipe string. Insight: Non-Destructive Testing and Condition Monitoring, 2017, 59, 378-382.	0.6	2
35	Further capacitive imaging experiments using modified probes. AIP Conference Proceedings, 2016, , .	0.4	2
36	Detection of Cracks in Metallic Objects by Arbitrary Scanning Direction Using a Double U-Shaped Orthogonal ACFM Probe. Materials Transactions, 2016, 57, 608-612.	1.2	5

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37	Application of metal magnetic memory technology on defects detection of jack-up platform. AIP Conference Proceedings, 2016, , .	0.4	0
38	In-service detection of longitudinal cracks on drill pipes using induced circumferential current. Insight: Non-Destructive Testing and Condition Monitoring, 2016, 58, 435-438.	0.6	1
39	Application of induced circumferential current for cracks inspection on pipe string. AIP Conference Proceedings, 2016, , .	0.4	1
40	Characterizing surface features on conducting specimens through an insulation layer using the capacitive imaging technique. AIP Conference Proceedings, 2016, , .	0.4	2
41	New parameters for the ACFM inspection of different materials. Insight: Non-Destructive Testing and Condition Monitoring, 2016, 58, 313-317.	0.6	4
42	High sensitivity rotating alternating current field measurement for arbitrary-angle underwater cracks. NDT and E International, 2016, 79, 123-131.	3.7	62
43	Induced circumferential current for transverse crack detection on a pipe string. Insight: Non-Destructive Testing and Condition Monitoring, 2015, 57, 528-533.	0.6	5
44	The detection of axial cracks in pipe string using a feed-through ACFM probe. , 2014, , .		0
45	Developing and testing of a novel portable ACFM intelligent instrument. , 2014, , .		1
46	Negative measurement sensitivity values of planar capacitive imaging probes. AIP Conference Proceedings, 2014, , .	0.4	2
47	A feed-through ACFM probe with sensor array for pipe string cracks inspection. NDT and E International, 2014, 67, 17-23.	3.7	50
48	A Novel Non-Destructive Evaluation (NDE) Technique Using Coplanar Capacitive Imaging Probes. Journal of Testing and Evaluation, 2014, 42, 713-724.	0.7	2
49	Studies of the factors influencing the imaging performance of the capacitive imaging technique. NDT and E International, 2013, 60, 1-10.	3.7	17
50	Investigations into the measurement sensitivity distribution of coplanar capacitive imaging probes. NDT and E International, 2013, 58, 1-9.	3.7	30
51	Analysis of the lift-off effect of a U-shaped ACFM system. NDT and E International, 2013, 53, 31-35.	3.7	43
52	Modeling and simulation of crack detection for underwater structures using an ACFM method. AIP Conference Proceedings, 2013, , .	0.4	1
53	Design and characterization of planar capacitive imaging probe based on the measurement sensitivity distribution. , 2013, , .		5
54	Detecting surface features on conducting specimens through an insulation layer using a capacitive imaging technique. NDT and E International, 2012, 52, 157-166.	3.7	33

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55	Non-destructive evaluation of composite materials using a capacitive imaging technique. Composites Part B: Engineering, 2012, 43, 1282-1292.	12.0	50
56	Preliminary studies on the design principles of capacitive imaging probes for non-destructive evaluation. International Journal of Applied Electromagnetics and Mechanics, 2011, 42, 447-470.	0.6	13
57	CAPACITIVE IMAGING TECHNIQUE FOR NDE. AIP Conference Proceedings, 2011, , .	0.4	2
58	Non-destructive evaluation of concrete using a capacitive imaging technique: Preliminary modelling and experiments. Cement and Concrete Research, 2010, 40, 1734-1743.	11.0	50
59	Further investigations into capacitive imaging for NDE. Insight: Non-Destructive Testing and Condition Monitoring, 2009, 51, 484-490.	0.6	11
60	Air-coupled ultrasonic spectroscopy of highly damping materials using pulse compression. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 1207-1217.	3.0	5