

Wontae Kim

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

470
citations

759233

12
h-index

713466

21
g-index

26
all docs

26
docs citations

26
times ranked

287
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantitative determination of a subsurface defect of reference specimen by lock-in infrared thermography. <i>NDT and E International</i> , 2008, 41, 119-124.	3.7	79
2	Evaluation of coating thickness by thermal wave imaging: A comparative study of pulsed and lock-in infrared thermography â€” Part II: Experimental investigation. <i>Infrared Physics and Technology</i> , 2018, 92, 24-29.	2.9	52
3	Evaluation of coating thickness by thermal wave imaging: A comparative study of pulsed and lock-in infrared thermography â€” Part I: Simulation. <i>Infrared Physics and Technology</i> , 2017, 83, 124-131.	2.9	51
4	Investigation of lock-in infrared thermography for evaluation of subsurface defects size and depth. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 2255-2264.	2.2	50
5	Quantification of defects depth in glass fiber reinforced plastic plate by infrared lock-in thermography. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 1111-1118.	1.5	32
6	Non-destructive testing and evaluation of materials using active thermography and enhancement of signal to noise ratio through data fusion. <i>Infrared Physics and Technology</i> , 2018, 94, 78-84.	2.9	31
7	Application of thermal wave imaging and phase shifting method for defect detection in Stainless steel. <i>Infrared Physics and Technology</i> , 2016, 76, 676-683.	2.9	27
8	Thermographic Inspection of Internal Defects in Steel Structures: Analysis of Signal Processing Techniques in Pulsed Thermography. <i>Sensors</i> , 2020, 20, 6015.	3.8	27
9	Thermographic inspection of water ingress in composite honeycomb sandwich structure: a quantitative comparison among Lock-in thermography algorithms. <i>Quantitative InfraRed Thermography Journal</i> , 2021, 18, 92-107.	4.2	22
10	Latest Advances in Common Signal Processing of Pulsed Thermography for Enhanced Detectability: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 12168.	2.5	17
11	Wavelet transform applied to lock-in thermographic data for detection of inclusions in composite structures: Simulation and experimental studies. <i>Infrared Physics and Technology</i> , 2019, 96, 98-112.	2.9	16
12	Thermal Behavior Variations in Coating Thickness Using Pulse Phase Thermography. <i>Journal of the Korean Society for Nondestructive Testing</i> , 2016, 36, 259-265.	0.2	13
13	Automated Defect Detection Using Threshold Value Classification Based on Thermographic Inspection. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7870.	2.5	12
14	A numericalâ€”thermalâ€”thermographic NDT evaluation of an ancient marquetry integrated with X-ray and XRF surveys. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 2265-2279.	3.6	8
15	Binarization Mechanism Evaluation for Water Ingress Detectability in Honeycomb Sandwich Structure Using Lock-In Thermography. <i>Materials</i> , 2022, 15, 2333.	2.9	7
16	INSPECTION OF IMPACT DAMAGE IN HONEYCOMB COMPOSITE BY ESPI, THERMOGRAPHY AND ULTRASONIC TESTING. <i>International Journal of Modern Physics B</i> , 2008, 22, 1033-1038.	2.0	6
17	Defect Recognition and Morphology Operation in Binary Images Using Line-Scanning-Based Induction Thermography. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 6006.	2.5	6
18	Thermographic Inspection of CLP Defects on the Subsurface Based on Binary Image. <i>International Journal of Precision Engineering and Manufacturing</i> , 2022, 23, 269-279.	2.2	5

#	ARTICLE	IF	CITATIONS
19	Binarization Mechanism for Detectability Enhancement using Lock-in Infrared Thermography. Journal of the Korean Society for Nondestructive Testing, 2021, 41, 79-86.	0.2	3
20	Optimization Method for evaluating Essential Factors of Plate Backside Thinning Defects using Lock-in Thermography. Journal of the Korean Society for Nondestructive Testing, 2020, 40, 452-459.	0.2	3
21	Quantitative Characteristics of Defect Dimension based on Line Scanning Method of Induction Infrared Thermography. Journal of the Korean Society for Nondestructive Testing, 2020, 40, 397-403.	0.2	1
22	Investigation on Topcoat Uniformity of Thermal Barrier Coating Using Pulsed Infrared Thermography. Journal of the Korean Society for Nondestructive Testing, 2018, 38, 114-119.	0.2	1
23	Infrared Thermographic Image Analysis using Singular Value Decomposition for Thinning Detection of Containment Liner Plate. Journal of the Korean Society for Nondestructive Testing, 2020, 40, 428-434.	0.2	1
24	OS11F126 Development of Composite Specimens for Infrared Thermography Nondestructive Inspection. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS11F126--_OS11F126-.	0.0	0
25	OS11-2-4 Development of Composite Specimens for Infrared Thermography Nondestructive Inspection. The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics, 2011, 2011.10, _OS11-2-4-.	0.0	0