

C Ibarra-Castanedo

List of Publications by Year in descending order

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187
papers

4,472
citations

117453

34
h-index

155451

55
g-index

191
all docs

191
docs citations

191
times ranked

1992
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative Study of Active Thermography Techniques for the Nondestructive Evaluation of Honeycomb Structures. <i>Research in Nondestructive Evaluation</i> , 2009, 20, 1-31.	0.5	226
2	Pulsed phase thermography reviewed. <i>Quantitative InfraRed Thermography Journal</i> , 2004, 1, 47-70.	2.1	195
3	Infrared image processing and data analysis. <i>Infrared Physics and Technology</i> , 2004, 46, 75-83.	1.3	172
4	Aircraft composites assessment by means of transient thermal NDT. <i>Progress in Aerospace Sciences</i> , 2004, 40, 143-162.	6.3	154
5	Nondestructive testing with thermography. <i>European Journal of Physics</i> , 2013, 34, S91-S109.	0.3	121
6	Non-destructive Investigation of Paintings on Canvas by Continuous Wave Terahertz Imaging and Flash Thermography. <i>Journal of Nondestructive Evaluation</i> , 2017, 36, 1.	1.1	106
7	Infrared thermography processing based on higher-order statistics. <i>NDT and E International</i> , 2010, 43, 661-666.	1.7	99
8	Optimization of pulsed thermography inspection by partial least-squares regression. <i>NDT and E International</i> , 2014, 66, 128-138.	1.7	92
9	Optical and Mechanical Excitation Thermography for Impact Response in Basalt-Carbon Hybrid Fiber-Reinforced Composite Laminates. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 514-522.	7.2	81
10	Comparative analysis on thermal non-destructive testing imagery applying Candid Covariance-Free Incremental Principal Component Thermography (CCIPCT). <i>Infrared Physics and Technology</i> , 2017, 85, 163-169.	1.3	79
11	Definition of a new thermal contrast and pulse correction for defect quantification in pulsed thermography. <i>Infrared Physics and Technology</i> , 2008, 51, 160-167.	1.3	75
12	Falling weight impacted glass and basalt fibre woven composites inspected using non-destructive techniques. <i>Composites Part B: Engineering</i> , 2013, 45, 601-608.	5.9	65
13	Diagnostics of panel paintings using holographic interferometry and pulsed thermography. <i>Quantitative InfraRed Thermography Journal</i> , 2010, 7, 85-114.	2.1	56
14	Reliability assessment of pulsed thermography and ultrasonic testing for impact damage of CFRP panels. <i>NDT and E International</i> , 2019, 102, 77-83.	1.7	54
15	Qualitative and quantitative assessment of aerospace structures by pulsed thermography. <i>Nondestructive Testing and Evaluation</i> , 2007, 22, 199-215.	1.1	53
16	Application of NDT thermographic imaging of aerospace structures. <i>Infrared Physics and Technology</i> , 2019, 97, 456-466.	1.3	52
17	Improving the detection of thermal bridges in buildings via on-site infrared thermography: The potentialities of innovative mathematical tools. <i>Energy and Buildings</i> , 2019, 182, 159-171.	3.1	52
18	Quantitative evaluation of optical lock-in and pulsed thermography for aluminum foam material. <i>Infrared Physics and Technology</i> , 2013, 60, 275-280.	1.3	51

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19	LSTM-RNN-based defect classification in honeycomb structures using infrared thermography. <i>Infrared Physics and Technology</i> , 2019, 102, 103032.	1.3	50
20	Interactive Methodology for Optimized Defect Characterization by Quantitative Pulsed Phase Thermography. <i>Research in Nondestructive Evaluation</i> , 2005, 16, 175-193.	0.5	48
21	Solar loading thermography: Time-lapsed thermographic survey and advanced thermographic signal processing for the inspection of civil engineering and cultural heritage structures. <i>Infrared Physics and Technology</i> , 2017, 82, 56-74.	1.3	48
22	ThermoPoD: A reliability study on active infrared thermography for the inspection of composite materials. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 1985-1991.	0.7	47
23	Optimization of the Inspection of Large Composite Materials Using Robotized Line Scan Thermography. <i>Journal of Nondestructive Evaluation</i> , 2017, 36, 1.	1.1	47
24	Automated defect classification in infrared thermography based on a neural network. <i>NDT and E International</i> , 2019, 107, 102147.	1.7	47
25	Advanced surveillance systems: combining video and thermal imagery for pedestrian detection. , 2004, , .		44
26	Defect depth retrieval from pulsed phase thermographic data on Plexiglas and aluminum samples. , 2004, , .		43
27	Delamination detection and impact damage assessment of GLARE by active thermography. <i>International Journal of Materials and Product Technology</i> , 2011, 41, 5.	0.1	43
28	Thermal numerical model and computational simulation of pulsed thermography inspection of carbon fiber-reinforced composites. <i>International Journal of Thermal Sciences</i> , 2014, 86, 325-340.	2.6	43
29	Highly accurate geometric calibration for infrared cameras using inexpensive calibration targets. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 112, 105-116.	2.5	43
30	Low-rank sparse principal component thermography (sparse-PCT): Comparative assessment on detection of subsurface defects. <i>Infrared Physics and Technology</i> , 2019, 98, 278-284.	1.3	43
31	ACTIVE INFRARED THERMOGRAPHY TECHNIQUES FOR THE NONDESTRUCTIVE TESTING OF MATERIALS. , 2007, , 325-348.		43
32	A thermographic comparison study for the assessment of composite patches. <i>Infrared Physics and Technology</i> , 2004, 45, 291-299.	1.3	41
33	Optical excitation thermography for twill/plain weaves and stitched fabric dry carbon fibre preform inspection. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 282-293.	3.8	40
34	Active thermography testing and data analysis for the state of conservation of panel paintings. <i>International Journal of Thermal Sciences</i> , 2018, 126, 143-151.	2.6	39
35	More than Fifty Shades of Grey: Quantitative Characterization of Defects and Interpretation Using SNR and CNR. <i>Journal of Nondestructive Evaluation</i> , 2018, 37, 1.	1.1	39
36	Drone-Based Non-Destructive Inspection of Industrial Sites: A Review and Case Studies. <i>Drones</i> , 2021, 5, 106.	2.7	38

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37	Carbon fiber composite inspection and defect characterization using active infrared thermography: numerical simulations and experimental results. <i>Applied Optics</i> , 2016, 55, D46.	2.1	37
38	Robust quantitative depth estimation on CFRP samples using active thermography inspection and numerical simulation updating. <i>NDT and E International</i> , 2017, 87, 119-123.	1.7	37
39	The multi-dimensional ensemble empirical mode decomposition (MEEMD). <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 1841-1858.	2.0	35
40	Thermography data fusion and nonnegative matrix factorization for the evaluation of cultural heritage objects and buildings. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 943-955.	2.0	35
41	Subsurface defect characterization in artworks by quantitative pulsed phase thermography and holographic interferometry. <i>Quantitative InfraRed Thermography Journal</i> , 2008, 5, 131-149.	2.1	34
42	Comparison of Cooled and Uncooled IR Sensors by Means of Signal-to-Noise Ratio for NDT Diagnostics of Aerospace Grade Composites. <i>Sensors</i> , 2020, 20, 3381.	2.1	34
43	<i>Infrared Thermography</i> , , 2013, , 175-220.		34
44	From the experimental simulation to integrated non-destructive analysis by means of optical and infrared techniques: results compared. <i>Measurement Science and Technology</i> , 2012, 23, 115601.	1.4	33
45	NDT inspection of plastered mosaics by means of transient thermography and holographic interferometry. <i>NDT and E International</i> , 2012, 47, 150-156.	1.7	33
46	How to reveal subsurface defects in Kevlar® composite materials after an impact loading using infrared vision and optical NDT techniques?. <i>Engineering Fracture Mechanics</i> , 2013, 108, 195-208.	2.0	33
47	Fiber orientation assessment on randomly-oriented strand composites by means of infrared thermography. <i>Composites Science and Technology</i> , 2015, 121, 25-33.	3.8	33
48	Defect characterization in infrared non-destructive testing with learning machines. <i>NDT and E International</i> , 2009, 42, 630-643.	1.7	31
49	Subsurface imaging for panel paintings inspection: A comparative study of the ultraviolet, the visible, the infrared and the terahertz spectra. <i>Opto-electronics Review</i> , 2015, 23, .	2.4	31
50	Automated Dynamic Inspection Using Active Infrared Thermography. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 5648-5657.	7.2	31
51	Inspection of aerospace materials by pulsed thermography, lock-in thermography, and vibrothermography: a comparative study. , 2007, , .		30
52	Holographic Interferometry (HI), Infrared Vision and X-Ray Fluorescence (XRF) spectroscopy for the assessment of painted wooden statues: a new integrated approach. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 115, 1041-1056.	1.1	30
53	Modified Differential Absolute Contrast using Thermal Quadrupoles for the Nondestructive Testing of Finite Thickness Specimens by Infrared Thermography. , 2006, , .		28
54	Comparison assessment of low rank sparse-PCA based-clustering/classification for automatic mineral identification in long wave infrared hyperspectral imagery. <i>Infrared Physics and Technology</i> , 2018, 93, 103-111.	1.3	28

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55	Thermographic nondestructive evaluation: overview of recent progress. , 2003, , .		27
56	Integrated approach between pulsed thermography, near-infrared reflectography and sandwich holography for wooden panel paintings advanced monitoring. Russian Journal of Nondestructive Testing, 2011, 47, 284-293.	0.3	27
57	Thermographic studies of plastered mosaics. Infrared Physics and Technology, 2007, 49, 254-256.	1.3	26
58	Evaluation of defects in panel paintings using infrared, optical and ultrasonic techniques. Insight: Non-Destructive Testing and Condition Monitoring, 2012, 54, 21-27.	0.3	26
59	Optimised dynamic line scan thermographic detection of CFRP inserts using FE updating and POD analysis. NDT and E International, 2018, 93, 141-149.	1.7	26
60	Automatic Defects Segmentation and Identification by Deep Learning Algorithm with Pulsed Thermography: Synthetic and Experimental Data. Big Data and Cognitive Computing, 2021, 5, 9.	2.9	25
61	Santa Maria di Collemaggio Church (L'Aquila, Italy): Historical Reconstruction by Non-Destructive Testing Techniques. International Journal of Architectural Heritage, 2015, 9, 367-390.	1.7	24
62	Diagnostics of wall paintings: A smart and reliable approach. Journal of Cultural Heritage, 2016, 18, 229-241.	1.5	24
63	Discovering the Defects in Paintings Using Non-destructive Testing (NDT) Techniques and Passing Through Measurements of Deformation. Journal of Nondestructive Evaluation, 2014, 33, 358-383.	1.1	23
64	Comparative study on submillimeter flaws in stitched T-joint carbon fiber reinforced polymer by infrared thermography, microcomputed tomography, ultrasonic c-scan and microscopic inspection. Optical Engineering, 2015, 54, 104109.	0.5	23
65	Pulsed micro-laser line thermography on submillimeter porosity in carbon fiber reinforced polymer composites: experimental and numerical analyses for the capability of detection. Applied Optics, 2016, 55, D1.	2.1	23
66	Machine Learning and Infrared Thermography for Fiber Orientation Assessment on Randomly-Oriented Strands Parts. Sensors, 2018, 18, 288.	2.1	23
67	Monitoring of jute/hemp fiber hybrid laminates by nondestructive testing techniques. Science and Engineering of Composite Materials, 2016, 23, 283-300.	0.6	22
68	Differentiated absolute phase contrast algorithm for the analysis of pulsed thermographic sequences. Infrared Physics and Technology, 2006, 48, 16-21.	1.3	21
69	Enhanced contrast detection of subsurface defects by pulsed infrared thermography based on the fourth order statistic moment, kurtosis. , 2009, , .		21
70	Active thermography signal processing techniques for defect detection and characterization on composite materials. , 2010, , .		21
71	Eco-Friendly Laminates: From the Indentation to Non-Destructive Evaluation by Optical and Infrared Monitoring Techniques. Strain, 2013, 49, 175-189.	1.4	21
72	Thermographic Non-Destructive Evaluation for Natural Fiber-Reinforced Composite Laminates. Applied Sciences (Switzerland), 2018, 8, 240.	1.3	20

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73	IR Reflectography and Active Thermography on Artworks: The Added Value of the 1.5-3 μm Band. Applied Sciences (Switzerland), 2018, 8, 50.	1.3	20
74	Introduction of Deep Learning in Thermographic Monitoring of Cultural Heritage and Improvement by Automatic Thermogram Pre-Processing Algorithms. Sensors, 2021, 21, 750.	2.1	20
75	Infrared vision for artwork and cultural heritage NDE studies: principles and case studies. Insight: Non-Destructive Testing and Condition Monitoring, 2017, 59, 243-248.	0.3	20
76	Thermographic Non-destructive Evaluation of Carbon Fiber-Reinforced Polymer Plates After Tensile Testing. Journal of Nondestructive Evaluation, 2015, 34, 1.	1.1	19
77	Active infrared thermography applied to defect detection and characterization on asphalt pavement samples: comparison between experiments and numerical simulations. Journal of Modern Optics, 2010, 57, 1759-1769.	0.6	18
78	Enhanced image processing for infrared non-destructive testing. Opto-electronics Review, 2014, 22, .	2.4	18
79	How to Retrieve Information Inherent to Old Restorations Made on Frescoes of Particular Artistic Value Using Infrared Vision?. International Journal of Thermophysics, 2015, 36, 3051-3070.	1.0	18
80	Comparative study of microlaser excitation thermography and microultrasonic excitation thermography on submillimeter porosity in carbon fiber reinforced polymer composites. Optical Engineering, 2016, 56, 041304.	0.5	18
81	Evaluation of the state of conservation of mosaics: Simulations and thermographic signal processing. International Journal of Thermal Sciences, 2017, 117, 287-315.	2.6	18
82	Eddy current pulsed thermography for ballistic impact evaluation in basalt-carbon hybrid composite panels. Applied Optics, 2018, 57, D74.	0.9	18
83	Thermal imaging dataset from composite material academic samples inspected by pulsed thermography. Data in Brief, 2020, 32, 106313.	0.5	18
84	Assessing the reliability of an automated system for mineral identification using LWIR Hyperspectral Infrared imagery. Minerals Engineering, 2020, 155, 106409.	1.8	18
85	Independent Component Analysis Applied on Pulsed Thermographic Data for Carbon Fiber Reinforced Plastic Inspection: A Comparative Study. Applied Sciences (Switzerland), 2021, 11, 4377.	1.3	18
86	Pulsed phase thermography inversion procedure using normalized parameters to account for defect size variations. , 2005, , .		16
87	Discrete signal transforms as a tool for processing and analyzing pulsed thermographic data. , 2006, , .		16
88	A straightforward graphical user interface for basic and advanced signal processing of thermographic infrared sequences. , 2008, , .		16
89	Non-Destructive Testing Techniques to Help the Restoration of Frescoes. Arabian Journal for Science and Engineering, 2014, 39, 3461-3480.	1.1	16
90	Quantitative inspection of non-planar composite specimens by pulsed phase thermography. Quantitative InfraRed Thermography Journal, 2006, 3, 25-40.	2.1	15

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91	A comparative investigation for the nondestructive testing of honeycomb structures by holographic interferometry and infrared thermography. <i>Journal of Physics: Conference Series</i> , 2010, 214, 012071.	0.3	15
92	Nondestructive Evaluation of Carbon Fiber Bicycle Frames Using Infrared Thermography. <i>Sensors</i> , 2017, 17, 2679.	2.1	15
93	Enhanced Infrared Image Processing for Impacted Carbon/Glass Fiber-Reinforced Composite Evaluation. <i>Sensors</i> , 2018, 18, 45.	2.1	15
94	Autonomous high resolution inspection of kiss-bonds skins of carbon nanotube reinforced nanocomposites using novel dynamic line-scan thermography approach. <i>Composites Science and Technology</i> , 2020, 192, 108111.	3.8	15
95	Evaluating quality of marquetries by applying active IR thermography and advanced signal processing. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 3835-3848.	2.0	15
96	Automatic interpolated differentiated absolute contrast algorithm for the analysis of pulsed thermographic sequences. , 2004, , .		15
97	RITA - Robotized Inspection by Thermography and Advanced processing for the inspection of aeronautical components. , 2014, , .		15
98	Continuum removal for ground-based LWIR hyperspectral infrared imagery applying non-negative matrix factorization. <i>Applied Optics</i> , 2018, 57, 6219.	0.9	14
99	Phase contrast using a differentiated absolute contrast method. <i>Quantitative InfraRed Thermography Journal</i> , 2006, 3, 219-230.	2.1	13
100	Inverse model for defect characterisation of externally glued CFRP on reinforced concrete structures: comparative study of square pulsed and pulsed thermography. <i>Quantitative InfraRed Thermography Journal</i> , 2014, 11, 84-114.	2.1	13
101	Impact Modelling and A Posteriori Non-destructive Evaluation of Homogeneous Particleboards of Sugarcane Bagasse. <i>Journal of Nondestructive Evaluation</i> , 2018, 37, 1.	1.1	13
102	Parameter Optimization of Robotize Line Scan Thermography for CFRP Composite Inspection. <i>Journal of Nondestructive Evaluation</i> , 2018, 37, 1.	1.1	13
103	Measuring Heterogeneous Thermal Patterns in Infrared-Based Diagnostic Systems Using Sparse Low-Rank Matrix Approximation: Comparative Study. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-9.	2.4	13
104	Development of a thermal excitation source used in an active thermographic UAV platform. <i>Quantitative InfraRed Thermography Journal</i> , 2023, 20, 198-229.	2.1	13
105	Influence of different design parameters on a coplanar capacitive sensor performance. <i>NDT and E International</i> , 2022, 126, 102588.	1.7	12
106	Thermographic signal processing through correlation operators in pulsed thermography. <i>Proceedings of SPIE</i> , 2008, , .	0.8	11
107	Review of pulse phase thermography. , 2015, , .		11
108	Automated Defect Detection in Non-planar Objects Using Deep Learning Algorithms. <i>Journal of Nondestructive Evaluation</i> , 2022, 41, 1.	1.1	11

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109	Infrared thermography as a nondestructive tool for materials characterisation and assessment. Proceedings of SPIE, 2011, , .	0.8	10
110	Qualitative Assessments via Infrared Vision of Sub-surface Defects Present Beneath Decorative Surface Coatings. International Journal of Thermophysics, 2018, 39, 1.	1.0	10
111	Automatic data processing based on the skewness statistic parameter for subsurface defect detection by active infrared thermography. , 2008, , .		10
112	Quantitative Infrared Thermography (IRT) and Holographic Interferometry (HI): Nondestructive Testing (NDT) for Defects Detection in the Silicate Ceramics Industry. Advances in Science and Technology, 2010, 68, 102-107.	0.2	9
113	Automatic IRNDT inspection applying sparse PCA-based clustering. , 2017, , .		9
114	On the Use of Infrared Thermography and Acousto-â€”Ultrasound NDT Techniques for Ceramic-Coated Sandwich Structures. Energies, 2019, 12, 2537.	1.6	9
115	Defect Quantification with Thermographic Signal Reconstruction and Artificial Neural Networks. , 2006, , .		9
116	Comparative study for the nondestructive testing of advanced ceramic materials by infrared thermography and holographic interferometry. , 2010, , .		8
117	Importance of integrated results of different non-destructive techniques in order to evaluate defects in panel paintings: the contribution of infrared, optical and ultrasonic techniques. , 2011, , .		8
118	Incremental Low Rank Noise Reduction for Robust Infrared Tracking of Body Temperature during Medical Imaging. Electronics (Switzerland), 2019, 8, 1301.	1.8	8
119	New algorithm based on the Hough transform for the analysis of pulsed thermographic sequences. NDT and E International, 2006, 39, 617-621.	1.7	7
120	Nondestructive Assessment of Glass Fibre Composites by Mid-Wave and Near Infrared Vision. Materials Transactions, 2012, 53, 601-603.	0.4	7
121	Infrared thermography inspection of glass reinforced plastic (GRP) wind turbine blades and the concept of an automated scanning device. Proceedings of SPIE, 2013, , .	0.8	7
122	SPAER: Sparse Deep Convolutional Autoencoder Model to Extract Low Dimensional Imaging Biomarkers for Early Detection of Breast Cancer Using Dynamic Thermography. Applied Sciences (Switzerland), 2021, 11, 3248.	1.3	7
123	Autonomous dynamic line-scan continuous-wave terahertz non-destructive inspection system combined with unsupervised exposure fusion. NDT and E International, 2022, 132, 102705.	1.7	7
124	Quantitative pulsed phase thermography applied to steel plates. , 2005, , .		6
125	Nondestructive testing of externally reinforced structures for seismic retrofitting using flax fiber reinforced polymer (FFRP) composites. Proceedings of SPIE, 2013, , .	0.8	6
126	A Comparative Study of Enhanced Infrared Image Processing for Foreign Object Detection in Lightweight Composite Honeycomb Structures. International Journal of Thermophysics, 2018, 39, 1.	1.0	6

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127	Comparison and evaluation of geometric calibration methods for infrared cameras to perform metric measurements on a plane. <i>Applied Optics</i> , 2018, 57, D1.	0.9	6
128	Mineral identification in LWIR hyperspectral imagery applying sparse-based clustering. <i>Quantitative InfraRed Thermography Journal</i> , 2019, 16, 147-162.	2.1	6
129	Evaluation and Selection of Video Stabilization Techniques for UAV-Based Active Infrared Thermography Application. <i>Sensors</i> , 2021, 21, 1604.	2.1	6
130	Active thermography data processing for the NDT&E of frescoes. , 2010, , .		6
131	Detection and characterization of water ingress in honeycomb structures by passive and active infrared thermography using a high resolution camera. , 2012, , .		6
132	Defect quantification with reference-free thermal contrast and artificial neural networks. , 2007, 6541, 242.		5
133	Water ingress detection in honeycomb sandwich panels by passive infrared thermography using a high-resolution thermal imaging camera. , 2012, , .		5
134	Analysis of signal processing techniques in pulsed thermography. , 2013, , .		5
135	Compression After Impact and Fatigue of Reconsolidated Fiber-reinforced Thermoplastic Matrix Solid Composite Laminate. , 2014, 3, 485-492.		5
136	Pulsed thermographic inspection of CFRP structures: experimental results and image analysis tools. <i>Proceedings of SPIE</i> , 2014, , .	0.8	5
137	Thermal NDT applying Candid Covariance-Free Incremental Principal Component Thermography (CCIPCT). , 2017, , .		5
138	Enhanced Infrared Sparse Pattern Extraction and Usage for Impact Evaluation of Basalt-Carbon Hybrid Composites by Pulsed Thermography. <i>Sensors</i> , 2020, 20, 7159.	2.1	5
139	Robust Principal Component Thermography for Defect Detection in Composites. <i>Sensors</i> , 2021, 21, 2682.	2.1	5
140	Infrared Vision: Visual Inspection Beyond the Visible Spectrum. <i>Advances in Computer Vision and Pattern Recognition</i> , 2015, , 41-58.	0.9	5
141	On the use of pulsed thermography signal reconstruction based on linear support vector regression for carbon fiber reinforced polymer inspection. <i>Quantitative InfraRed Thermography Journal</i> , 2023, 20, 39-61.	2.1	5
142	Multi-Electrode Coplanar Capacitive Probe With Various Arrangements for Non-Destructive Testing of Materials. <i>IEEE Sensors Journal</i> , 2022, 22, 8134-8146.	2.4	5
143	Defects detection and non-destructive testing (NDT) techniques in paintings: a unified approach through measurements of deformation. <i>Proceedings of SPIE</i> , 2013, , .	0.8	4
144	Role of the masonry in paintings during a seismic event analyzed by infrared vision. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4

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145	Infrared thermography for CFRP inspection: computational model and experimental results. Proceedings of SPIE, 2016, , .	0.8	4
146	Mineral identification in hyperspectral imaging using Sparse-PCA. Proceedings of SPIE, 2016, , .	0.8	4
147	Numerical Simulation and Experimental Study of Capacitive Imaging Technique as a Nondestructive Testing Method. Applied Sciences (Switzerland), 2021, 11, 3804.	1.3	4
148	Unsupervised Identification of Targeted Spectra Applying Rank1-NMF and FCC Algorithms in Long-Wave Hyperspectral Infrared Imagery. Remote Sensing, 2021, 13, 2125.	1.8	4
149	A novel optical air-coupled ultrasound NDE sensing technique compared with infrared thermographic NDT on impacted composite materials. , 2018, , .		4
150	Basalt fibre laminates non-destructively inspected after low-velocity impacts. FME Transactions, 2016, 44, 380-385.	0.7	4
151	Application of blind image quality assessment metrics to pulsed thermography. Quantitative InfraRed Thermography Journal, 2023, 20, 256-276.	2.1	4
152	Analysis of pulsed thermographic sequences based on radon transform. , 2006, , .		3
153	Integration of infrared and optical imaging techniques for the nondestructive inspection of aeronautic parts. , 2015, , .		3
154	Fracture behavior of reinforced aluminum alloy matrix composites using thermal imaging tools. , 2016, , .		3
155	Emissivity retrieval from indoor hyperspectral imaging of mineral grains. , 2016, , .		3
156	Implementation of advanced signal processing techniques on Line-Scan Thermography data. , 2017, , .		3
157	Artificial Neural Networks and Infrared Thermography for Fiber Orientation Assessment. , 2017, , .		3
158	Thermal stresses applied on helicopter blades useful to retrieve defects by means of infrared thermography and speckle patterns. Thermal Science and Engineering Progress, 2020, 18, 100511.	1.3	3
159	Near infrared imaging for multi-polar civilian applications. , 2010, , .		3
160	Thermal transient thermographic NDT and E of composites. , 2004, 5405, 403.		2
161	A combined integral transform asymptotic expansion method for the characterization of interface flaws through pulsed infrared thermography. Quantitative InfraRed Thermography Journal, 2007, 4, 3-23.	2.1	2
162	A study of active thermography approaches for the non-destructive testing and evaluation of aerospace structures. , 2008, , .		2

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163	Localization of wood floor structure by infrared thermography. Proceedings of SPIE, 2008, , .	0.8	2
164	DEVELOPMENT OF A FIELD CONCENTRATOR COIL BY FINITE ELEMENT MODELING FOR POWER EFFICIENCY OPTIMIZATION IN EDDY CURRENT THERMOGRAPHY INSPECTION. , 2010, , .		2
165	Automated transient thermography for the inspection of CFRP structures: experimental results and developed procedures. , 2011, , .		2
166	Dynamic Line-Scan Thermography for the Inspection of Paper-Based Materials: A Case Study Focused on an Ancient Book Cover. Proceedings (mdpi), 2019, 27, .	0.2	2
167	Infrared Non-Destructive Testing via Semi-Nonnegative Matrix Factorization. Proceedings (mdpi), 2019, 27, .	0.2	2
168	Multiscale Analysis of Solar Loading Thermographic Signals for Wall Structure Inspection. Sensors, 2021, 21, 2806.	2.1	2
169	Nondestructive Investigation of Paintings on Canvas by Infrared Thermography, Air-Coupled Ultrasound, and X-Ray Radiography. , 2018, , 367-374.		2
170	Application of Sparse Non-Negative Matrix Factorization in infrared non-destructive testing. , 2019, , .		2
171	Latent Low Rank Representation Applied to Thermography. , 0, , .		2
172	The use of optical and infrared techniques for the restoration of the frescoes damaged by earthquake: a case studyâ€”the fresco of Giacomo Farelli in the Church of Santa Maria della Croce di Roio (Lâ€™Aquila, Italy). WIT Transactions on the Built Environment, 2011, , .	0.0	2
173	Coplanar Capacitive Sensing as a New Electromagnetic Technique for Non-Destructive Evaluation. , 2021, , .		2
174	Latent Low Rank Representation Applied to Pulsed Thermography Data For Carbon Fibre Reinforced Polymer Inspection. Quantitative InfraRed Thermography Journal, 2023, 20, 143-156.	2.1	2
175	Nondestructive testing of plastered mosaics with the use of active thermography approaches. , 2010, , .		1
176	Modified algorithm for mineral identification in LWIR hyperspectral imagery. , 2017, , .		1
177	Robotized Line-Scan Thermographic Mid-Wave Infrared Vision for Artwork Inspection: A Study on Famous Mock-Ups. Springer Proceedings in Materials, 2019, , 64-74.	0.1	1
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