Xavier Maldague

List of Publications by Year
in descending order

342 papers	8,182 citations	71102 41 h-index	82547 72 g-index
360 all docs	360 docs citations	360 times ranked	3830 citing authors

#	Article	IF	Citations
1	Pulse phase infrared thermography. Journal of Applied Physics, 1996, 79, 2694-2698.	2.5	859
2	Advances in pulsed phase thermography. Infrared Physics and Technology, 2002, 43, 175-181.	2.9	300
3	Comparative Study of Active Thermography Techniques for the Nondestructive Evaluation of Honeycomb Structures. Research in Nondestructive Evaluation, 2009, 20, 1-31.	1.1	226
4	Pulsed phase thermography reviewed. Quantitative InfraRed Thermography Journal, 2004, 1, 47-70.	4.2	195
5	Infrared image processing and data analysis. Infrared Physics and Technology, 2004, 46, 75-83.	2.9	172
6	Aircraft composites assessment by means of transient thermal NDT. Progress in Aerospace Sciences, 2004, 40, 143-162.	12.1	154
7	Nondestructive testing with thermography. European Journal of Physics, 2013, 34, S91-S109.	0.6	121
8	Infrared face recognition: A comprehensive review of methodologies and databases. Pattern Recognition, 2014, 47, 2807-2824.	8.1	106
9	Non-destructive Investigation of Paintings on Canvas by Continuous Wave Terahertz Imaging and Flash Thermography. Journal of Nondestructive Evaluation, 2017, 36, 1.	2.4	106
10	Infrared thermography processing based on higher-order statistics. NDT and E International, 2010, 43, 661-666.	3.7	99
11	Thermal (IR) and Other NDT Techniques for Improved Material Inspection. Journal of Nondestructive Evaluation, 2016, 35, 1.	2.4	96
12	Optimization of pulsed thermography inspection by partial least-squares regression. NDT and E International, 2014, 66, 128-138.	3.7	92
13	A study of defect depth using neural networks in pulsed phase thermography: modelling, noise, experiments. International Journal of Thermal Sciences, 1998, 37, 704-717.	0.2	81
14	Optical and Mechanical Excitation Thermography for Impact Response in Basalt-Carbon Hybrid Fiber-Reinforced Composite Laminates. IEEE Transactions on Industrial Informatics, 2018, 14, 514-522.	11.3	81
15	Comparative analysis on thermal non-destructive testing imagery applying Candid Covariance-Free Incremental Principal Component Thermography (CCIPCT). Infrared Physics and Technology, 2017, 85, 163-169.	2.9	79
16	Definition of a new thermal contrast and pulse correction for defect quantification in pulsed thermography. Infrared Physics and Technology, 2008, 51, 160-167.	2.9	75
17	An adaptive fusion approach for infrared and visible images based on NSCT and compressed sensing. Infrared Physics and Technology, 2016, 74, 11-20.	2.9	73
18	New Absolute Contrast for pulsed thermography. , 2002, , .		68

#	Article	IF	Citations
19	Evaluation of calving indicators measured by automated monitoring devices to predict the onset of calving in Holstein dairy cows. Journal of Dairy Science, 2016, 99, 1539-1548.	3.4	67
20	Neural network based defect detection and depth estimation in TNDE. NDT and E International, 2002, 35, 165-175.	3.7	66
21	Falling weight impacted glass and basalt fibre woven composites inspected using non-destructive techniques. Composites Part B: Engineering, 2013, 45, 601-608.	12.0	65
22	An experimental and analytical study of micro-laser line thermography on micro-sized flaws in stitched carbon fiber reinforced polymer composites. Composites Science and Technology, 2016, 126, 17-26.	7.8	63
23	CO_2-depleted warm air venting from chrysotile milling waste (Thetford Mines, Canada): Evidence for in-situ carbon capture from the atmosphere. Geology, 2012, 40, 275-278.	4.4	59
24	Applications of infrared thermography in nondestructive evaluation. , 2000, , 591-633.		58
25	Diagnostics of panel paintings using holographic interferometry and pulsed thermography. Quantitative InfraRed Thermography Journal, 2010, 7, 85-114.	4.2	56
26	The use of pulse-compression thermography for detecting defects in paintings. NDT and E International, 2018, 98, 147-154.	3.7	56
27	Use of infrared ocular thermography to assess physiological conditions of pigs prior to slaughter and predict pork quality variation. Meat Science, 2013, 95, 616-620.	5.5	55
28	Reliability assessment of pulsed thermography and ultrasonic testing for impact damage of CFRP panels. NDT and E International, 2019, 102, 77-83.	3.7	54
29	Qualitative and quantitative assessment of aerospace structures by pulsed thermography. Nondestructive Testing and Evaluation, 2007, 22, 199-215.	2.1	53
30	Application of NDT thermographic imaging of aerospace structures. Infrared Physics and Technology, 2019, 97, 456-466.	2.9	52
31	Improving the detection of thermal bridges in buildings via on-site infrared thermography: The potentialities of innovative mathematical tools. Energy and Buildings, 2019, 182, 159-171.	6.7	52
32	Quantitative evaluation of optical lock-in and pulsed thermography for aluminum foam material. Infrared Physics and Technology, 2013, 60, 275-280.	2.9	51
33	Infrared Image Enhancement Using Adaptive Histogram Partition and Brightness Correction. Remote Sensing, 2018, 10, 682.	4.0	49
34	Interactive Methodology for Optimized Defect Characterization by Quantitative Pulsed Phase Thermography. Research in Nondestructive Evaluation, 2005, 16, 175-193.	1.1	48
35	Solar loading thermography: Time-lapsed thermographic survey and advanced thermographic signal processing for the inspection of civil engineering and cultural heritage structures. Infrared Physics and Technology, 2017, 82, 56-74.	2.9	48
36	ThermoPoD: A reliability study on active infrared thermography for the inspection of composite materials. Journal of Mechanical Science and Technology, 2012, 26, 1985-1991.	1.5	47

#	Article	IF	Citations
37	Optimization of the Inspection of Large Composite Materials Using Robotized Line Scan Thermography. Journal of Nondestructive Evaluation, 2017, 36, 1.	2.4	47
38	Automated defect classification in infrared thermography based on a neural network. NDT and E International, 2019, 107, 102147.	3.7	47
39	Thermal nondestructive testing of carbon epoxy composites: detailed analysis and data processing. NDT and E International, 1993, 26, 85-95.	3.7	46
40	Defect characterization in pulsed thermography: a statistical method compared with Kohonen and Perceptron neural networks. NDT and E International, 2000, 33, 307-315.	3.7	45
41	Benchmarking of wildland fire colour segmentation algorithms. IET Image Processing, 2015, 9, 1064-1072.	2.5	45
42	Thermal Pattern Contrast Diagnostic of Microcracks With Induction Thermography for Aircraft Braking Components. IEEE Transactions on Industrial Informatics, 2018, 14, 5563-5574.	11.3	44
43	Delamination detection and impact damage assessment of GLARE by active thermography. International Journal of Materials and Product Technology, 2011, 41, 5.	0.2	43
44	Thermal–numerical model and computational simulation of pulsed thermography inspection of carbon fiber-reinforced composites. International Journal of Thermal Sciences, 2014, 86, 325-340.	4.9	43
45	Highly accurate geometric calibration for infrared cameras using inexpensive calibration targets. Measurement: Journal of the International Measurement Confederation, 2017, 112, 105-116.	5.0	43
46	Low-rank sparse principal component thermography (sparse-PCT): Comparative assessment on detection of subsurface defects. Infrared Physics and Technology, 2019, 98, 278-284.	2.9	43
47	ACTIVE INFRARED THERMOGRAPHY TECHNIQUES FOR THE NONDESTRUCTIVE TESTING OF MATERIALS. , 2007, , 325-348.		43
48	Thermographic Nondestructive Evaluation: Data Inversion Procedures Part II: 2-D Analysis and Experimental Results. Research in Nondestructive Evaluation, 1991, 3, 101-124.	1.1	41
49	A thermographic comparison study for the assessment of composite patches. Infrared Physics and Technology, 2004, 45, 291-299.	2.9	41
50	Infrared face recognition: A literature review. , 2013, , .		41
51	Optical excitation thermography for twill/plain weaves and stitched fabric dry carbon fibre preform inspection. Composites Part A: Applied Science and Manufacturing, 2018, 107, 282-293.	7.6	40
52	Outdoor infrared video surveillance: A novel dynamic technique for the subtraction of a changing background of IR images. Infrared Physics and Technology, 2007, 49, 261-265.	2.9	39
53	FEM modeling of ultrasonic vibrothermography of a damaged plate and qualitative study of heating mechanisms. Infrared Physics and Technology, 2013, 61, 101-110.	2.9	39
54	Active thermography testing and data analysis for the state of conservation of panel paintings. International Journal of Thermal Sciences, 2018, 126, 143-151.	4.9	39

#	Article	IF	Citations
55	More than Fifty Shades of Grey: Quantitative Characterization of Defects and Interpretation Using SNR and CNR. Journal of Nondestructive Evaluation, 2018, 37, 1.	2.4	39
56	Bayesian classification and unsupervised learning for isolating weeds in row crops. Pattern Analysis and Applications, 2014, 17, 401-414.	4.6	38
57	Infrared thermography and NDT: 2050 horizon. Quantitative InfraRed Thermography Journal, 2016, 13, 210-231.	4.2	38
58	Drone-Based Non-Destructive Inspection of Industrial Sites: A Review and Case Studies. Drones, 2021, 5, 106.	4.9	38
59	Carbon fiber composite inspection and defect characterization using active infrared thermography: numerical simulations and experimental results. Applied Optics, 2016, 55, D46.	2.1	37
60	Robust quantitative depth estimation on CFRP samples using active thermography inspection and numerical simulation updating. NDT and E International, 2017, 87, 119-123.	3.7	37
61	The multi-dimensional ensemble empirical mode decomposition (MEEMD). Journal of Thermal Analysis and Calorimetry, 2017, 128, 1841-1858.	3.6	35
62	Thermography data fusion and nonnegative matrix factorization for the evaluation of cultural heritage objects and buildings. Journal of Thermal Analysis and Calorimetry, 2019, 136, 943-955.	3.6	35
63	An Evaluation of Image Analysis Algorithms for Constructing Discontinuity Trace Maps. Rock Mechanics and Rock Engineering, 2003, 36, 163-179.	5.4	34
64	Subsurface defect characterization in artworks by quantitative pulsed phase thermography and holographic interferometry. Quantitative InfraRed Thermography Journal, 2008, 5, 131-149.	4.2	34
65	Experimental Evaluation of Pulsed Thermography, Lock-in Thermography and Vibrothermography on Foreign Object Defect (FOD) in CFRP. Sensors, 2016, 16, 743.	3.8	34
66	Comparison of Cooled and Uncooled IR Sensors by Means of Signal-to-Noise Ratio for NDT Diagnostics of Aerospace Grade Composites. Sensors, 2020, 20, 3381.	3.8	34
67	Infrared Thermography. , 2013, , 175-220.		34
68	From the experimental simulation to integrated non-destructive analysis by means of optical and infrared techniques: results compared. Measurement Science and Technology, 2012, 23, 115601.	2.6	33
69	NDT inspection of plastered mosaics by means of transient thermography and holographic interferometry. NDT and E International, 2012, 47, 150-156.	3.7	33
70	How to reveal subsurface defects in Kevlar® composite materials after an impact loading using infrared vision and optical NDT techniques?. Engineering Fracture Mechanics, 2013, 108, 195-208.	4.3	33
71	Fiber orientation assessment on randomly-oriented strand composites by means of infrared thermography. Composites Science and Technology, 2015, 121, 25-33.	7.8	33
72	An Infrared-Induced Terahertz Imaging Modality for Foreign Object Detection in a Lightweight Honeycomb Composite Structure. IEEE Transactions on Industrial Informatics, 2018, 14, 5629-5636.	11.3	33

#	Article	IF	Citations
73	Defect characterization in infrared non-destructive testing with learning machines. NDT and E International, 2009, 42, 630-643.	3.7	31
74	Subsurface imaging for panel paintings inspection: A comparative study of the ultraviolet, the visible, the infrared and the terahertz spectra. Opto-electronics Review, 2015, 23, .	2.4	31
75	Automated Dynamic Inspection Using Active Infrared Thermography. IEEE Transactions on Industrial Informatics, 2018, 14, 5648-5657.	11.3	31
76	Double pulse infrared thermography. NDT and E International, 2004, 37, 559-564.	3.7	30
77	Inspection of aerospace materials by pulsed thermography, lock-in thermography, and vibrothermography: a comparative study. , 2007, , .		30
78	Holographic Interferometry (HI), Infrared Vision and X-Ray Fluorescence (XRF) spectroscopy for the assessment of painted wooden statues: a new integrated approach. Applied Physics A: Materials Science and Processing, 2014, 115, 1041-1056.	2.3	30
79	Particle swarm optimization-based local entropy weighted histogram equalization for infrared image enhancement. Infrared Physics and Technology, 2018, 91, 164-181.	2.9	30
80	Unmanned Aerial Vehicle Video-Based Target Tracking Algorithm Using Sparse Representation. IEEE Internet of Things Journal, 2019, 6, 9689-9706.	8.7	30
81	An active infrared thermography method for fiber orientation assessment of fiber-reinforced composite materials. Infrared Physics and Technology, 2015, 72, 286-292.	2.9	29
82	A Study of Wood Inspection by Infrared Thermography, Part I: Wood Pole Inspection by Infrared Thermography. Research in Nondestructive Evaluation, 2001, 13, 1-12.	1.1	28
83	Modified Differential Absolute Contrast using Thermal Quadrupoles for the Nondestructive Testing of Finite Thickness Specimens by Infrared Thermography. , 2006, , .		28
84	Nondestructive testing of open microscopic cracks in plasma-sprayed-coatings using ultrasound excited vibrothermography. Nondestructive Testing and Evaluation, 2008, 23, 109-120.	2.1	28
85	Total Variation Regularization Term-Based Low-Rank and Sparse Matrix Representation Model for Infrared Moving Target Tracking. Remote Sensing, 2018, 10, 510.	4.0	28
86	Comparison assessment of low rank sparse-PCA based-clustering/classification for automatic mineral identification in long wave infrared hyperspectral imagery. Infrared Physics and Technology, 2018, 93, 103-111.	2.9	28
87	A Method of Defect Depth Estimation for Simulated Infrared Thermography Data with Deep Learning. Applied Sciences (Switzerland), 2020, 10, 6819.	2.5	28
88	Combination of colour and thermal sensors for enhanced object detection. , 2007, , .		27
89	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.	0.9	27
90	Thermographic studies of plastered mosaics. Infrared Physics and Technology, 2007, 49, 254-256.	2.9	26

#	Article	IF	Citations
91	Evaluation of defects in panel paintings using infrared, optical and ultrasonic techniques. Insight: Non-Destructive Testing and Condition Monitoring, 2012, 54, 21-27.	0.6	26
92	Optimised dynamic line scan thermographic detection of CFRP inserts using FE updating and POD analysis. NDT and E International, 2018, 93, 141-149.	3.7	26
93	Non-destructive defect evaluation of polymer composites via thermographic data analysis: A manifold learning method. Infrared Physics and Technology, 2019, 97, 300-308.	2.9	26
94	Validation of Anatomical Sites for the Measurement of Infrared Body Surface Temperature Variation in Response to Handling and Transport. Animals, 2019, 9, 425.	2.3	25
95	Automatic Defects Segmentation and Identification by Deep Learning Algorithm with Pulsed Thermography: Synthetic and Experimental Data. Big Data and Cognitive Computing, 2021, 5, 9.	4.7	25
96	Coverage path planning for eddy current inspection on complex aeronautical parts. Robotics and Computer-Integrated Manufacturing, 2014, 30, 305-314.	9.9	24
97	Santa Maria di Collemaggio Church (Lâ€™Aquila, Italy): Historical Reconstruction by Non-Destructive Testing Techniques. International Journal of Architectural Heritage, 2015, 9, 367-390.	3.1	24
98	Diagnostics of wall paintings: A smart and reliable approach. Journal of Cultural Heritage, 2016, 18, 229-241.	3.3	24
99	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.	2.4	23
100	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.	1.0	23
101	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
102	Machine Learning and Infrared Thermography for Fiber Orientation Assessment on Randomly-Oriented Strands Parts. Sensors, 2018, 18, 288.	3.8	23
103	Application of Deep Learning in Infrared Non-Destructive Testing. , 0, , .		23
104	A Study of Wood Inspection by Infrared Thermography, Part II: Thermography for Wood Defects Detection. Research in Nondestructive Evaluation, 2001, 13, 13-21.	1.1	22
105	Monitoring of jute/hemp fiber hybrid laminates by nondestructive testing techniques. Science and Engineering of Composite Materials, 2016, 23, 283-300.	1.4	22
106	Precious walls built in indoor environments inspected numerically and experimentally within long-wave infrared (LWIR) and radio regions. Journal of Thermal Analysis and Calorimetry, 2019, 137, 1083-1111.	3.6	22
107	Thermographic nondestructive evaluation (NDE): an algorithm for automatic defect extraction in infrared images. IEEE Transactions on Systems, Man, and Cybernetics, 1990, 20, 722-725.	0.9	21
108	Differentiated absolute phase contrast algorithm for the analysis of pulsed thermographic sequences. Infrared Physics and Technology, 2006, 48, 16-21.	2.9	21

#	Article	IF	Citations
109	Framework for color-texture classification in machine vision inspection of industrial products. , 2007, , .		21
110	Active thermography signal processing techniques for defect detection and characterization on composite materials. , 2010, , .		21
111	Eco€Friendly Laminates: From the Indentation to Non€Destructive Evaluation by Optical and Infrared Monitoring Techniques. Strain, 2013, 49, 175-189.	2.4	21
112	Thermographic Non-Destructive Evaluation for Natural Fiber-Reinforced Composite Laminates. Applied Sciences (Switzerland), 2018, 8, 240.	2.5	20
113	Introduction of Deep Learning in Thermographic Monitoring of Cultural Heritage and Improvement by Automatic Thermogram Pre-Processing Algorithms. Sensors, 2021, 21, 750.	3.8	20
114	Infrared vision for artwork and cultural heritage NDE studies: principles and case studies. Insight: Non-Destructive Testing and Condition Monitoring, 2017, 59, 243-248.	0.6	20
115	Thermographic Non-destructive Evaluation of Carbon Fiber-Reinforced Polymer Plates After Tensile Testing. Journal of Nondestructive Evaluation, 2015, 34, 1.	2.4	19
116	Automated assessment and tracking of human body thermal variations using unsupervised clustering. Applied Optics, 2016, 55, D162.	2.1	19
117	Passive Mineral Carbonation of Mg-rich Mine Wastes by Atmospheric CO_2. Energy Procedia, 2017, 114, 6083-6086.	1.8	19
118	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.	1.3	18
119	Enhanced image processing for infrared non-destructive testing. Opto-electronics Review, 2014, 22, .	2.4	18
120	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.	2.1	18
121	Comparative study of microlaser excitation thermography and microultrasonic excitation thermography on submillimeter porosity in carbon fiber reinforced polymer composites. Optical Engineering, 2016, 56, 041304.	1.0	18
122	Evaluation of the state of conservation of mosaics: Simulations and thermographic signal processing. International Journal of Thermal Sciences, 2017, 117, 287-315.	4.9	18
123	Eddy current pulsed thermography for ballistic impact evaluation in basalt-carbon hybrid composite panels. Applied Optics, 2018, 57, D74.	1.8	18
124	Thermal imaging dataset from composite material academic samples inspected by pulsed thermography. Data in Brief, 2020, 32, 106313.	1.0	18
125	Assessing the reliability of an automated system for mineral identification using LWIR Hyperspectral Infrared imagery. Minerals Engineering, 2020, 155, 106409.	4.3	18
126	Independent Component Analysis Applied on Pulsed Thermographic Data for Carbon Fiber Reinforced Plastic Inspection: A Comparative Study. Applied Sciences (Switzerland), 2021, 11, 4377.	2.5	18

#	Article	IF	Citations
127	Vehicle Classification Using Infrared Image Analysis. Journal of Transportation Engineering, 1992, 118, 223-240.	0.9	17
128	Optimization of Heating Protocol in Thermal NDT, Short and Long Heating Pulses: A Discussion. Research in Nondestructive Evaluation, 1994, 6, 1-18.	1.1	17
129	Automatic setup deviation measurements with electronic portal images for pelvic fields. Medical Physics, 1998, 25, 1180-1185.	3.0	16
130	Pulsed phased thermography with the wavelet transform. AIP Conference Proceedings, 2000, , .	0.4	16
131	Non-Destructive Testing Techniques to Help the Restoration of Frescoes. Arabian Journal for Science and Engineering, 2014, 39, 3461-3480.	1.1	16
132	Study on characteristics of magnetic memory testing signal based on the stress concentration field. IET Science, Measurement and Technology, 2017, 11, 2-8.	1.6	16
133	Terahertz Amplitude Polynomial Principle Component Regression for Aramid–Basalt Hybrid Composite Laminate Inspection. IEEE Transactions on Industrial Informatics, 2018, 14, 5601-5609.	11.3	16
134	A Level Set Method for Infrared Image Segmentation Using Global and Local Information. Remote Sensing, 2018, 10, 1039.	4.0	16
135	Detecting Vasodilation as Potential Diagnostic Biomarker in Breast Cancer Using Deep Learning-Driven Thermomics. Biosensors, 2020, 10, 164.	4.7	16
136	Quantitative inspection of non-planar composite specimens by pulsed phase thermography. Quantitative InfraRed Thermography Journal, 2006, 3, 25-40.	4.2	15
137	A comparative investigation for the nondestructive testing of honeycomb structures by holographic interferometry and infrared thermography. Journal of Physics: Conference Series, 2010, 214, 012071.	0.4	15
138	Illumination-invariant face recognition from a single image across extreme pose using a dual dimension AAM ensemble in the thermal infrared spectrum. , 2013, , .		15
139	Nondestructive Evaluation of Carbon Fiber Bicycle Frames Using Infrared Thermography. Sensors, 2017, 17, 2679.	3.8	15
140	A multimodal 3D framework for fire characteristics estimation. Measurement Science and Technology, 2018, 29, 025404.	2.6	15
141	Enhanced Infrared Image Processing for Impacted Carbon/Glass Fiber-Reinforced Composite Evaluation. Sensors, 2018, 18, 45.	3.8	15
142	Thermography is cool: Defect detection using liquid nitrogen as a stimulus. NDT and E International, 2019, 102, 137-143.	3.7	15
143	Autonomous high resolution inspection of kiss-bonds skins of carbon nanotube reinforced nanocomposites using novel dynamic line-scan thermography approach. Composites Science and Technology, 2020, 192, 108111.	7.8	15
144	A Drone-Enabled Approach for Gas Leak Detection Using Optical Flow Analysis. Applied Sciences (Switzerland), 2021, 11, 1412.	2.5	15

#	Article	IF	Citations
145	Evaluating quality of marquetries by applying active IR thermography and advanced signal processing. Journal of Thermal Analysis and Calorimetry, 2021, 143, 3835-3848.	3.6	15
146	Automatic interpolated differentiated absolute contrast algorithm for the analysis of pulsed thermographic sequences. , 2004, , .		15
147	Fast and accurate calibration-based thermal / colour sensors registration. , 2010, , .		15
148	Comparative study of Thermographic Signal Reconstruction and Partial Least Squares Thermography for detection and evaluation of subsurface defects. , 2014, , .		15
149	RITA - Robotized Inspection by Thermography and Advanced processing for the inspection of aeronautical components. , 2014, , .		15
150	Fiber orientation assessment in complex shaped parts reinforced with carbon fiber using infrared thermography. Quantitative InfraRed Thermography Journal, 2015, 12, 64-79.	4.2	14
151	Continuum removal for ground-based LWIR hyperspectral infrared imagery applying non-negative matrix factorization. Applied Optics, 2018, 57, 6219.	1.8	14
152	Dual-Intended Deep Learning Model for Breast Cancer Diagnosis in Ultrasound Imaging. Cancers, 2022, 14, 2663.	3.7	14
153	The converging-surface-acoustic-wave technique: anaylsis and applications to nondestructive evaluation. Canadian Journal of Physics, 1986, 64, 1324-1329.	1.1	13
154	Light-scattering characterization of polyblends in the presence of multiple-scattering conditions. Polymer Engineering and Science, 1987, 27, 1601-1610.	3.1	13
155	Phase contrast using a differentiated absolute contrast method. Quantitative InfraRed Thermography Journal, 2006, 3, 219-230.	4.2	13
156	Unsupervised Lips Segmentation Based on ROI Optimisation and Parametric Model. , 2007, , .		13
157	Near-infrared image formation and processing for the extraction of hand veins. Journal of Modern Optics, 2010, 57, 1731-1737.	1.3	13
158	Inverse model for defect characterisation of externally glued CFRP on reinforced concrete structures: comparative study of square pulsed and pulsed thermography. Quantitative InfraRed Thermography Journal, 2014, 11, 84-114.	4.2	13
159	Impact Modelling and A Posteriori Non-destructive Evaluation of Homogeneous Particleboards of Sugarcane Bagasse. Journal of Nondestructive Evaluation, 2018, 37, 1.	2.4	13
160	Parameter Optimization of Robotize Line Scan Thermography for CFRP Composite Inspection. Journal of Nondestructive Evaluation, 2018, 37, 1.	2.4	13
161	Atmospheric Carbon Mineralization in an Industrial-Scale Chrysotile Mining Waste Pile. Environmental Science & Technology, 2018, 52, 8050-8057.	10.0	13
162	Measuring Heterogeneous Thermal Patterns in Infrared-Based Diagnostic Systems Using Sparse Low-Rank Matrix Approximation: Comparative Study. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	13

#	Article	IF	Citations
163	Polymorphic Measurement Method of FeO Content of Sinter Based on Heterogeneous Features of Infrared Thermal Images. IEEE Sensors Journal, 2021, 21, 12036-12047.	4.7	13
164	Development of a thermal excitation source used in an active thermographic UAV platform. Quantitative InfraRed Thermography Journal, 2023, 20, 198-229.	4.2	13
165	Image analysis of drill core. Mining Technology: Transactions of the Institute of Materials, Minerals and Mining Section A, 2001, 110, 172-177.	0.8	12
166	Improved method for absolute thermal contrast evaluation using Source Distribution Image (SDI). Infrared Physics and Technology, 2010, 53, 197-203.	2.9	12
167	Visible and near-infrared light transmission: A hybrid imaging method for non-destructive meat quality evaluation. Infrared Physics and Technology, 2012, 55, 412-420.	2.9	12
168	Compensation Method for the Influence of Dust in Optical Path on Infrared Temperature Measurement. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	12
169	Influence of different design parameters on a coplanar capacitive sensor performance. NDT and E International, 2022, 126, 102588.	3.7	12
170	Optothermal analysis of polymer composites. Polymer Composites, 1987, 8, 396-407.	4.6	11
171	MONNET: Monitoring Pedestrians with a Network of Loosely-Coupled Cameras. , 2006, , .		11
172	Review of pulse phase thermography. , 2015, , .		11
173	Evaluating thermal properties of sugarcane bagasse-based composites by using active infrared thermography and terahertz imaging. Infrared Physics and Technology, 2019, 97, 432-439.	2.9	11
174	Research on the Influence of Multiple Interference Factors on Infrared Temperature Measurement. IEEE Sensors Journal, 2021, 21, 10546-10555.	4.7	11
175	Automated Defect Detection in Non-planar Objects Using Deep Learning Algorithms. Journal of Nondestructive Evaluation, 2022, 41, 1.	2.4	11
176	Infrared thermography as a nondestructive tool for materials characterisation and assessment. Proceedings of SPIE, 2011, , .	0.8	10
177	Qualitative Assessments via Infrared Vision of Sub-surface Defects Present Beneath Decorative Surface Coatings. International Journal of Thermophysics, 2018, 39, 1.	2.1	10
178	Long-Term Numerical Analysis of Subsurface Delamination Detection in Concrete Slabs via Infrared Thermography. Applied Sciences (Switzerland), 2021, 11, 4323.	2.5	10
179	Defects detection in infrared thermography by deep learning algorithm. , 2020, , .		10
180	Automatic data processing based on the skewness statistic parameter for subsurface defect detection by active infrared thermography. , 2008, , .		10

#	Article	IF	Citations
181	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
182	Automatic IRNDT inspection applying sparse PCA-based clustering. , 2017, , .		9
183	On the Use of Infrared Thermography and Acousto–Ultrasonics NDT Techniques for Ceramic-Coated Sandwich Structures. Energies, 2019, 12, 2537.	3.1	9
184	Defect Quantification with Thermographic Signal Reconstruction and Artificial Neural Networks. , 2006, , .		9
185	Novel infrared-terahertz fusion 3D non-invasive imaging of plant fibre-reinforced polymer composites. Composites Science and Technology, 2022, 226, 109526.	7.8	9
186	Characterization of lead zirconate titanate ceramics using surface acoustic wave. Ultrasonics, 1986, 24, 133-136.	3.9	8
187	Comparative study for the nondestructive testing of advanced ceramic materials by infrared thermography and holographic interferometry. , 2010, , .		8
188	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
189	High-resolution survey of buildings by lock-in IR thermography. Proceedings of SPIE, 2013, , .	0.8	8
190	Analysis of a new method of measurement and visualization of indoor conditions by infrared thermography. Review of Scientific Instruments, 2013, 84, 084906.	1.3	8
191	Infrared thermography, ultrasound C-scan and microscope for non-destructive and destructive evaluation of 3D carbon fiber materials: a comparative study. Proceedings of SPIE, 2015, , .	0.8	8
192	Mapping of the Indoor Conditions by Infrared Thermography. Journal of Imaging, 2016, 2, 10.	3.0	8
193	Incremental Low Rank Noise Reduction for Robust Infrared Tracking of Body Temperature during Medical Imaging. Electronics (Switzerland), 2019, 8, 1301.	3.1	8
194	Influence of Dust on Temperature Measurement Using Infrared Thermal Imager. IEEE Sensors Journal, 2020, 20, 2911-2918.	4.7	8
195	A Diagnostic Biomarker for Breast Cancer Screening *via* Hilbert Embedded Deep Low-Rank Matrix Approximation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	8
196	Université Laval Face Motion and Time-Lapse Video Database (UL-FMTV). , 0, , .		8
197	New algorithm based on the Hough transform for the analysis of pulsed thermographic sequences. NDT and E International, 2006, 39, 617-621.	3.7	7
198	Using lock-in infrared thermography for the visualization of the hand vascular tree. Proceedings of SPIE, 2008, , .	0.8	7

#	Article	IF	Citations
199	Nondestructive Assessment of Glass Fibre Composites by Mid-Wave and Near Infrared Vision. Materials Transactions, 2012, 53, 601-603.	1.2	7
200	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
201	Information and Communication Technologies in Engineering Education. MATEC Web of Conferences, 2016, 79, 01044.	0.2	7
202	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.	2.5	7
203	Evaluation of frescoes detachments by partial least square thermography. , 2014, , .		7
204	A Camera Trap to Reveal the Obscure World of the Arctic Subnivean Ecology. IEEE Sensors Journal, 2021, 21, 28025-28036.	4.7	7
205	Autonomous dynamic line-scan continuous-wave terahertz non-destructive inspection system combined with unsupervised exposure fusion. NDT and E International, 2022, 132, 102705.	3.7	7
206	Dual Imager And Its Applications To Active Vision Robot Welding, Surface Inspection, And Two-Color Pyrometry. Optical Engineering, 1989, 28, 872.	1.0	6
207	Temperature recovery and contrast computations in NDE thermographic imaging systems. Journal of Nondestructive Evaluation, 1991, 10, 19-30.	2.4	6
208	Nondestructive testing of externally reinforced structures for seismic retrofitting using flax fiber reinforced polymer (FFRP) composites. Proceedings of SPIE, 2013, , .	0.8	6
209	A Comparative Study of Enhanced Infrared Image Processing for Foreign Object Detection in Lightweight Composite Honeycomb Structures. International Journal of Thermophysics, 2018, 39, 1.	2.1	6
210	Comparison and evaluation of geometric calibration methods for infrared cameras to perform metric measurements on a plane. Applied Optics, 2018, 57, D1.	1.8	6
211	Mineral identification in LWIR hyperspectral imagery applying sparse-based clustering. Quantitative InfraRed Thermography Journal, 2019, 16, 147-162.	4.2	6
212	Evaluation and Selection of Video Stabilization Techniques for UAV-Based Active Infrared Thermography Application. Sensors, 2021, 21, 1604.	3.8	6
213	Cavity Detection in Steel-Pipe Culverts Using Infrared Thermography. Applied Sciences (Switzerland), 2021, 11, 4051.	2.5	6
214	Impartially Validated Multiple Deep-Chain Models to Detect COVID-19 in Chest X-ray Using Latent Space Radiomics. Journal of Clinical Medicine, 2021, 10, 3100.	2.4	6
215	Active thermography data processing for the NDT&E of frescoes. , 2010, , .		6
216	Spot Weld Inspections Using Active Thermography. Applied Sciences (Switzerland), 2022, 12, 5668.	2.5	6

#	Article	IF	Citations
217	Non-destructive imaging of marqueteries based on a new infrared-terahertz fusion technique. Infrared Physics and Technology, 2022, 125, 104277.	2.9	6
218	Defect quantification with reference-free thermal contrast and artificial neural networks. , 2007, 6541, 242.		5
219	Visible and infrared imagery for surveillance applications: software and hardware considerations. Quantitative InfraRed Thermography Journal, 2007, 4, 25-40.	4.2	5
220	Water ingress detection in honeycomb sandwich panels by passive infrared thermography using a high-resolution thermal imaging camera. , 2012, , .		5
221	Analysis of signal processing techniques in pulsed thermography. , 2013, , .		5
222	Comparison of image processing techniques for the on-site evaluation of damaged frescoes. , 2014, , .		5
223	Pulsed thermographic inspection of CFRP structures: experimental results and image analysis tools. Proceedings of SPIE, 2014, , .	0.8	5
224	Thermal NDT applying Candid Covariance-Free Incremental Principal Component Thermography (CCIPCT). , 2017, , .		5
225	Thermochemical monitoring of brucite carbonation using passive infrared thermography. Chemical Engineering and Processing: Process Intensification, 2018, 130, 43-52.	3.6	5
226	Enhanced Infrared Sparse Pattern Extraction and Usage for Impact Evaluation of Basalt-Carbon Hybrid Composites by Pulsed Thermography. Sensors, 2020, 20, 7159.	3.8	5
227	Dynamic Line Scan Thermography Optimisation Using Response Surfaces Implemented on PVC Flat Bottom Hole Plates. Applied Sciences (Switzerland), 2021, 11, 1538.	2.5	5
228	Robust Principal Component Thermography for Defect Detection in Composites. Sensors, 2021, 21, 2682.	3.8	5
229	Multi-Excitation Infrared Fusion for Impact Evaluation of Aluminium-BFRP/GFRP Hybrid Composites. Sensors, 2021, 21, 5961.	3.8	5
230	Infrared Vision: Visual Inspection Beyond the Visible Spectrum. Advances in Computer Vision and Pattern Recognition, 2015, , 41-58.	1.3	5
231	Depth Evaluation in Pulsed Phase Thermography with Neural Network. , 1999, , 611-617.		5
232	Nondestructive evaluation of low-velocity impact-induced damage in basalt-carbon hybrid composite laminates using eddy current-pulsed thermography. Optical Engineering, 2018, 58, 1.	1.0	5
233	On the use of pulsed thermography signal reconstruction based on linear support vector regression for carbon fiber reinforced polymer inspection. Quantitative InfraRed Thermography Journal, 2023, 20, 39-61.	4.2	5
234	Multi-Electrode Coplanar Capacitive Probe With Various Arrangements for Non-Destructive Testing of Materials. IEEE Sensors Journal, 2022, 22, 8134-8146.	4.7	5

#	Article	IF	Citations
235	Pulse shaping in infrared thermography for nondestructive evaluation. Review of Scientific Instruments, 2003, 74, 411-413.	1.3	4
236	Neural Networks for Color Image Segmentation: Application to Sapwood Assessment. , 2007, , .		4
237	Suspicious event recognition using infrared imagery. , 2011, , .		4
238	Defects detection and non-destructive testing (NDT) techniques in paintings: a unified approach through measurements of deformation. Proceedings of SPIE, 2013, , .	0.8	4
239	Role of the masonry in paintings during a seismic event analyzed by infrared vision. Proceedings of SPIE, 2015, , .	0.8	4
240	Infrared thermography for CFRP inspection: computational model and experimental results. Proceedings of SPIE, 2016, , .	0.8	4
241	Mineral identification in hyperspectral imaging using Sparse-PCA. Proceedings of SPIE, 2016, , .	0.8	4
242	Detection of insulation flaws and thermal bridges in insulated truck box panels. Quantitative InfraRed Thermography Journal, 2017, 14, 275-284.	4.2	4
243	IRNDT Inspection Via Sparse Principal Component Thermography. , 2018, , .		4
244	Using Near Infrared for Studying Lemming Subnival Behavior in the High Arctic. Proceedings (mdpi), 2019, 27, .	0.2	4
245	Numerical Simulation and Experimental Study of Capacitive Imaging Technique as a Nondestructive Testing Method. Applied Sciences (Switzerland), 2021, 11, 3804.	2.5	4
246	Unsupervised Identification of Targeted Spectra Applying Rank1-NMF and FCC Algorithms in Long-Wave Hyperspectral Infrared Imagery. Remote Sensing, 2021, 13, 2125.	4.0	4
247	A Study of Wood Inspection by Infrared Thermography, Part I: Wood Pole Inspection by Infrared Thermography. Research in Nondestructive Evaluation, 2001, 13, 1-12.	1.1	4
248	A novel optical air-coupled ultrasound NDE sensing technique compared with infrared thermographic NDT on impacted composite materials. , 2018, , .		4
249	Comparative study of Line Scan and Flying Line Active IR Thermography operated with a 6-axis robot. , 0, , .		4
250	Basalt fibre laminates non-destructively inspected after low-velocity impacts. FME Transactions, 2016, 44, 380-385.	1.4	4
251	Defect Enhancement and Image Noise Reduction Analysis Using Partial Least Square-Generative Adversarial Networks (PLS-GANs) in Thermographic Nondestructive Evaluation. Journal of Nondestructive Evaluation, 2021, 40, 1.	2.4	4
252	Maximizing the detection of thermal imprints in civil engineering composites via numerical and thermographic results pre-processed by a groundbreaking mathematical approach. International Journal of Thermal Sciences, 2022, 177, 107553.	4.9	4

#	Article	IF	Citations
253	Drone-Enabled Multimodal Platform for Inspection of Industrial Components. IEEE Access, 2022, 10, 41429-41443.	4.2	4
254	Application of blind image quality assessment metrics to pulsed thermography. Quantitative InfraRed Thermography Journal, 2023, 20, 256-276.	4.2	4
255	Pulsed photothermoelastic quantitative evaluation of flaws in laminates. Canadian Journal of Physics, 1986, 64, 1293-1296.	1.1	3
256	Fiber orientation assessment on surface and beneath surface of carbon fiber reinforced composites using active infrared thermography. , 2014, , .		3
257	Integration of infrared and optical imaging techniques for the nondestructive inspection of aeronautic parts. , 2015, , .		3
258	Fracture behavior of reinforced aluminum alloy matrix composites using thermal imaging tools. , 2016, , .		3
259	Emissivity retrieval from indoor hyperspectral imaging of mineral grains. , 2016, , .		3
260	Multisensor image fusion approach utilizing hybrid pre-enhancement and double nonsubsampled contourlet transform. Journal of Electronic Imaging, 2017, 26, 010501.	0.9	3
261	Implementation of advanced signal processing techniques on Line-Scan Thermography data. , 2017, , .		3
262	Quantitative assessment in thermal image segmentation for artistic objects. , 2017, , .		3
263	Artificial Neural Networks and Infrared Thermography for Fiber Orientation Assessment. , 2017, , .		3
264	Panoramic view of the heat flux inside an insulated vehicle by infrared thermography. Quantitative InfraRed Thermography Journal, 2018, 15, 68-80.	4.2	3
265	Automatic Detection and Delimitation of Internal Moisture in Mosaics from Thermographic Sequences. Experimental Tests. Proceedings (mdpi), 2019, 27, .	0.2	3
266	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.	2.7	3
267	On Methods for Shape Correction and Reconstruction in Thermographic NDE. , 1994, , 209-224.		3
268	Defect Depth Estimation Using Neuro-Fuzzy System in TNDE. , 2000, , .		3
269	Near infrared imaging for multi-polar civilian applications. , 2010, , .		3
270	Detection of Insulation Flaws and Thermal Bridges in Insulated Truck Box Panels. , 0, , .		3

#	Article	IF	Citations
271	Stacked denoising autoencoder for infrared thermography image enhancement. , 2021, , .		3
272	Applications of Pulse Phase Thermography. , 1997, , 339-344.		3
273	Thermographic nondestructive evaluation (NDE) of turbine blades: Methods and image processing. Industrial Metrology, 1990, 1, 139-153.	0.3	2
274	Classifying Tracked Objects and their Interactions from Infrared Imagery. , 2006, , .		2
275	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.	4.2	2
276	A study of active thermography approaches for the non-destructive testing and evaluation of aerospace structures. , 2008, , .		2
277	Localization of wood floor structure by infrared thermography. Proceedings of SPIE, 2008, , .	0.8	2
278	DEVELOPMENT OF A FIELD CONCENTRATOR COIL BY FINITE ELEMENT MODELING FOR POWER EFFICIENCY OPTIMIZATION IN EDDY CURRENT THERMOGRAPHY INSPECTION. , 2010, , .		2
279	Automated transient thermography for the inspection of CFRP structures: experimental results and developed procedures. , 2011, , .		2
280	Combination of thermal and color images for accurate foreground / background segmentation in outdoor environment. , 2013, , .		2
281	Thermal diffusivity estimation with quantitative pulsed phase thermography. , 2015, , .		2
282	A comparative study of experimental and finite element analysis on submillimeter flaws by laser and ultrasonic excited thermography. Proceedings of SPIE, 2016, , .	0.8	2
283	Numerical and experimental analyses for natural and non-natural impacted composites via thermographic inspection, ultrasonic C-scan and terahertz imaging. , 2017, , .		2
284	Multimodal three-dimensional vision for wildland fires detection and analysis. , 2017, , .		2
285	Infrared Non-Destructive Testing via Semi-Nonnegative Matrix Factorization. Proceedings (mdpi), 2019, 27, .	0.2	2
286	Multiscale Analysis of Solar Loading Thermographic Signals for Wall Structure Inspection. Sensors, 2021, 21, 2806.	3.8	2
287	Optics-Based Techniques for the Characterization of Composites and Ceramics. , 1987, , 733-744.		2
288	Nondestructive Investigation of Paintings on Canvas by Infrared Thermography, Air-Coupled Ultrasound, and X-Ray Radiography. , 2018, , 367-374.		2

#	Article	IF	Citations
289	INFRARED THERMOGRAPHIC INSPECTION BY INTERNAL TEMPERATURE PERTURBATION TECHNIQUES. , 1989, , 561-566.		2
290	Using through-transmission mid-wave infrared vision and air-coupled ultrasound for artwork inspection: a case study on mock-ups of <i>Portrait of the Painter's Mother</i>. Insight: Non-Destructive Testing and Condition Monitoring, 2020, 62, 123-128.	0.6	2
291	Probability of detection for in field thermal non destructive testing of aircraft composite structures. , 2010, , .		2
292	Thermal Diffusivity Measurements With Flash Method at Different Depths In a Burned Composite Material. , 0, , .		2
293	Application of Sparse Non-Negative Matrix Factorization in infrared non-destructive testing. , 2019, , .		2
294	Latent Low Rank Representation Applied to Thermography. , 0, , .		2
295	Pulsed Thermography Signal Reconstruction Using Linear Support Vector Regression.. , 0, , .		2
296	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
297	Optimization of Color-based Foreground / Background Segmentation for Outdoor Scenes. , 2012, , .		2
298	Coplanar Capacitive Sensing as a New Electromagnetic Technique for Non-Destructive Evaluation. , 2021, , .		2
299	Optical design challenges of subnivean camera trapping under extreme Arctic conditions. Arctic Science, 0, , 1-16.	2.3	2
300	Latent Low Rank Representation Applied to Pulsed Thermography Data For Carbon Fibre Reinforced Polymer Inspection. Quantitative InfraRed Thermography Journal, 2023, 20, 143-156.	4.2	2
301	A microprogrammable-processor teaching tool and its FPGA implementation. Canadian Journal of Electrical and Computer Engineering, 2003, 28, 139-144.	2.0	1
302	<title>Context-independant video monitoring of mobile objects with color/thermal sensor</title>. , 2004, , .		1
303	Nondestructive inspection of open micro-cracks in thermally sprayed coatings using ultrasound excited vibrothermography. , 2007, , .		1
304	Nondestructive testing of plastered mosaics with the use of active thermography approaches. , 2010, , .		1
305	Design of a Remote Infrared Images and Other Data Acquisition Station for outdoor applications. Proceedings of SPIE, 2013, , .	0.8	1
306	A hybrid frequency-spatial domain infrared image enhancement approach evaluated by fuzzy entropy. , 2014, , .		1

#	Article	IF	Citations
307	An infrared-visible image fusion scheme based on NSCT and compressed sensing. Proceedings of SPIE, 2015, , .	0.8	1
308	Modified algorithm for mineral identification in LWIR hyperspectral imagery. , 2017, , .		1
309	Liquid nitrogen cooling in IR thermography applied to steel specimen. Proceedings of SPIE, 2017, , .	0.8	1
310	The role of the continuous wavelet transform in mineral identification using hyperspectral imaging in the long-wave infrared by using SVM classifier. Proceedings of SPIE, 2017, , .	0.8	1
311	Satellite image fusion by using a combination of IHS and HPM methods. Proceedings of SPIE, 2017, , .	0.8	1
312	Robotized Line-Scan Thermographic Mid-Wave Infrared Vision for Artwork Inspection: A Study on Famous Mock-Ups. Springer Proceedings in Materials, 2019, , 64-74.	0.3	1
313	Optimisation of a Heat Source for Infrared Thermography Measurements: Comparison to Mehler Engineering + Service-Heater. Applied Sciences (Switzerland), 2020, 10, 1285.	2.5	1
314	Addendum: Fang, Q.; Maldague, X. A Method of Defect Depth Estimation for Simulated Infrared Thermography Data with Deep Learning. Appl. Sci. 2020, 10, 6819. Applied Sciences (Switzerland), 2021, 11, 3451.	2.5	1
315	A Study of Wood Inspection by Infrared Thermography, Part II: Thermography for Wood Defects Detection. Research in Nondestructive Evaluation, 2001, 13, 13-21.	1.1	1
316	Inspecting historical vaulted ceilings by means of physical and chemical analyses: an integrated approach combining active infrared thermography and reflectance spectroscopy. Insight: Non-Destructive Testing and Condition Monitoring, 2020, 62, 144-151.	0.6	1
317	COMPARISON OF ACTIVE THERMOGRAPHY TECHNIQUES FOR THE INSPECTION AND DEFECT CHARACTERISATION OF CARBON FIBER COMPOSITES. , 0, , .		1
318	Nondestructive evaluation using eddy current pulsed thermographic imaging of basalt-carbon hybrid fiber-reinforced composite laminates subjected to low-velocity impact loadings. , 2018, , .		1
319	Defect detection based on monogenic signal processing. , 2019, , .		1
320	Data Enhancement via Low-Rank Matrix Reconstruction in Pulsed Thermography for Carbon-Fibre-Reinforced Polymers. Sensors, 2021, 21, 7185.	3.8	1
321	Three-Dimensional Non-Destructive Inspection Using Novel Infrared-Terahertz Fusion Approaches. Engineering Proceedings, 2021, 8, .	0.4	1
322	Dynamic Line Scan Thermography Parameter Design via Gaussian Process Emulation. Algorithms, 2022, 15, 102.	2.1	1
323	Concentrated Thermomics for Early Diagnosis of Breast Cancer. , 2021, 8, .		1
324	Digital treatment of thermal data by quantitative pulsed phase thermography for the non-destructive evaluation of materials. , 0, , .		0

#	Article	IF	Citations
325	Heat-stimulus correction for pulsed-infrared thermography. Proceedings of SPIE, 2009, , .	0.8	0
326	A hybrid, infrared thermography: heat diffusion equation, method for the 3D air-temperature measurement. Proceedings of SPIE, 2011, , .	0.8	0
327	Flow detection via sparse frame analysis for suspicious event recognition in infrared imagery. Proceedings of SPIE, 2013, , .	0.8	0
328	Investigation of the influence of spatial degrees of freedom on thermal infrared measurement. Proceedings of SPIE, 2017, , .	0.8	0
329	Comparative study on point and line thermographic inspection for fiber orientation assessment of randomly oriented strand material. Journal of the Brazilian Computer Society, 2018, 24, .	1.3	0
330	Terahertz Image Improvement for an Environmentally Friendly Sandwich Structure. , 2018, , .		0
331	NDT Techniques: Thermographic. , 2001, , 6036-6039.		0
332	Path planning for eddy current inspection around probable defects. Canadian Aeronautics and Space Journal, 0, , 1-9.	0.1	0
333	A Real Time Animal Detection And Segmentation Algorithm For IRT Images In Indoor Environments. , 0, , .		0
334	A comparative study of ultrasonic c-scan, micro-CT, infrared thermography and Terahertz NDT based on experiments and simulations of composites. , 0, , .		0
335	A novel data fusion method for infrared and visible images based on NSCT and Gaussian statistical estimation. , 0, , .		0
336	Robotic Eddy Current Thermography: Simulations and experiments. , 0, , .		0
337	Infrared and Terahertz time-domain imaging for evaluation of impacted thick homogeneous particleboards of sugarcane bagasse. , 0, , .		0
338	Autonomous systems thermographic NDT of composite structures. , 2019, , .		0
339	UAV Inspections of Metallic and Composite Aircraft Panels. , 0, , .		0
340	Defect Segmentation in Concrete Structures Combining Registered Infrared and Visible Images: A Comparative Experimental Study. Engineering Proceedings, 2021, 8, .	0.4	0
341	16th International Workshop on Advanced Infrared Technology and Applications (AITA 2021). Engineering Proceedings, 2022, 8, .	0.4	0
342	University Laval Infrared Thermography Databases for Deep Learning Multiple Types of Defect Detections Training. , 0, , .		0