

Xavier Maldague

List of Publications by Year in descending order

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342
papers

8,182
citations

71102

41
h-index

82547

72
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360
all docs

360
docs citations

360
times ranked

3830
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Application of blind image quality assessment metrics to pulsed thermography. Quantitative InfraRed Thermography Journal, 2023, 20, 256-276.	4.2	4
3	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
4	Development of a thermal excitation source used in an active thermographic UAV platform. Quantitative InfraRed Thermography Journal, 2023, 20, 198-229.	4.2	13
5	Influence of different design parameters on a coplanar capacitive sensor performance. NDT and E International, 2022, 126, 102588.	3.7	12
6	Automated Defect Detection in Non-planar Objects Using Deep Learning Algorithms. Journal of Nondestructive Evaluation, 2022, 41, 1.	2.4	11
7	16th International Workshop on Advanced Infrared Technology and Applications (AITA 2021). Engineering Proceedings, 2022, 8, .	0.4	0
8	Multi-Electrode Coplanar Capacitive Probe With Various Arrangements for Non-Destructive Testing of Materials. IEEE Sensors Journal, 2022, 22, 8134-8146.	4.7	5
9	Dynamic Line Scan Thermography Parameter Design via Gaussian Process Emulation. Algorithms, 2022, 15, 102.	2.1	1
10	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
11	Drone-Enabled Multimodal Platform for Inspection of Industrial Components. IEEE Access, 2022, 10, 41429-41443.	4.2	4
12	Novel infrared-terahertz fusion 3D non-invasive imaging of plant fibre-reinforced polymer composites. Composites Science and Technology, 2022, 226, 109526.	7.8	9
13	Dual-Intended Deep Learning Model for Breast Cancer Diagnosis in Ultrasound Imaging. Cancers, 2022, 14, 2663.	3.7	14
14	Spot Weld Inspections Using Active Thermography. Applied Sciences (Switzerland), 2022, 12, 5668.	2.5	6
15	Non-destructive imaging of marqueteries based on a new infrared-terahertz fusion technique. Infrared Physics and Technology, 2022, 125, 104277.	2.9	6
16	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
17	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
18	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

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19	Introduction of Deep Learning in Thermographic Monitoring of Cultural Heritage and Improvement by Automatic Thermogram Pre-Processing Algorithms. <i>Sensors</i> , 2021, 21, 750.	3.8	20
20	Automatic Defects Segmentation and Identification by Deep Learning Algorithm with Pulsed Thermography: Synthetic and Experimental Data. <i>Big Data and Cognitive Computing</i> , 2021, 5, 9.	4.7	25
21	Evaluation and Selection of Video Stabilization Techniques for UAV-Based Active Infrared Thermography Application. <i>Sensors</i> , 2021, 21, 1604.	3.8	6
22	A Drone-Enabled Approach for Gas Leak Detection Using Optical Flow Analysis. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1412.	2.5	15
23	Dynamic Line Scan Thermography Optimisation Using Response Surfaces Implemented on PVC Flat Bottom Hole Plates. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 1538.	2.5	5
24	Cavity Detection in Steel-Pipe Culverts Using Infrared Thermography. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4051.	2.5	6
25	Numerical Simulation and Experimental Study of Capacitive Imaging Technique as a Nondestructive Testing Method. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3804.	2.5	4
26	SPAER: Sparse Deep Convolutional Autoencoder Model to Extract Low Dimensional Imaging Biomarkers for Early Detection of Breast Cancer Using Dynamic Thermography. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3248.	2.5	7
27	Addendum: Fang, Q.; Maldague, X. A Method of Defect Depth Estimation for Simulated Infrared Thermography Data with Deep Learning. <i>Appl. Sci.</i> 2020, 10, 6819. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3451.	2.5	1
28	Robust Principal Component Thermography for Defect Detection in Composites. <i>Sensors</i> , 2021, 21, 2682.	3.8	5
29	Multiscale Analysis of Solar Loading Thermographic Signals for Wall Structure Inspection. <i>Sensors</i> , 2021, 21, 2806.	3.8	2
30	Independent Component Analysis Applied on Pulsed Thermographic Data for Carbon Fiber Reinforced Plastic Inspection: A Comparative Study. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4377.	2.5	18
31	Research on the Influence of Multiple Interference Factors on Infrared Temperature Measurement. <i>IEEE Sensors Journal</i> , 2021, 21, 10546-10555.	4.7	11
32	Unsupervised Identification of Targeted Spectra Applying Rank1-NMF and FCC Algorithms in Long-Wave Hyperspectral Infrared Imagery. <i>Remote Sensing</i> , 2021, 13, 2125.	4.0	4
33	Long-Term Numerical Analysis of Subsurface Delamination Detection in Concrete Slabs via Infrared Thermography. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4323.	2.5	10
34	Impartially Validated Multiple Deep-Chain Models to Detect COVID-19 in Chest X-ray Using Latent Space Radiomics. <i>Journal of Clinical Medicine</i> , 2021, 10, 3100.	2.4	6
35	Multi-Excitation Infrared Fusion for Impact Evaluation of Aluminium-BFRP/GFRP Hybrid Composites. <i>Sensors</i> , 2021, 21, 5961.	3.8	5
36	Polymorphic Measurement Method of FeO Content of Sinter Based on Heterogeneous Features of Infrared Thermal Images. <i>IEEE Sensors Journal</i> , 2021, 21, 12036-12047.	4.7	13

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37	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
38	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
39	A Camera Trap to Reveal the Obscure World of the Arctic Subnivean Ecology. IEEE Sensors Journal, 2021, 21, 28025-28036.	4.7	7
40	Stacked denoising autoencoder for infrared thermography image enhancement. , 2021, , .		3
41	Drone-Based Non-Destructive Inspection of Industrial Sites: A Review and Case Studies. Drones, 2021, 5, 106.	4.9	38
42	Data Enhancement via Low-Rank Matrix Reconstruction in Pulsed Thermography for Carbon-Fibre-Reinforced Polymers. Sensors, 2021, 21, 7185.	3.8	1
43	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
44	Three-Dimensional Non-Destructive Inspection Using Novel Infrared-Terahertz Fusion Approaches. Engineering Proceedings, 2021, 8, .	0.4	1
45	Defect Segmentation in Concrete Structures Combining Registered Infrared and Visible Images: A Comparative Experimental Study. Engineering Proceedings, 2021, 8, .	0.4	0
46	Coplanar Capacitive Sensing as a New Electromagnetic Technique for Non-Destructive Evaluation. , 2021, , .		2
47	Concentrated Thermomics for Early Diagnosis of Breast Cancer. , 2021, 8, .		1
48	Detecting Vasodilation as Potential Diagnostic Biomarker in Breast Cancer Using Deep Learning-Driven Thermomics. Biosensors, 2020, 10, 164.	4.7	16
49	A Method of Defect Depth Estimation for Simulated Infrared Thermography Data with Deep Learning. Applied Sciences (Switzerland), 2020, 10, 6819.	2.5	28
50	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
51	Thermal imaging dataset from composite material academic samples inspected by pulsed thermography. Data in Brief, 2020, 32, 106313.	1.0	18
52	Assessing the reliability of an automated system for mineral identification using LWIR Hyperspectral Infrared imagery. Minerals Engineering, 2020, 155, 106409.	4.3	18
53	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
54	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

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55	Thermal stresses applied on helicopter blades useful to retrieve defects by means of infrared thermography and speckle patterns. <i>Thermal Science and Engineering Progress</i> , 2020, 18, 100511.	2.7	3
56	Optimisation of a Heat Source for Infrared Thermography Measurements: Comparison to Mehler Engineering + Service-Heater. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1285.	2.5	1
57	Influence of Dust on Temperature Measurement Using Infrared Thermal Imager. <i>IEEE Sensors Journal</i> , 2020, 20, 2911-2918.	4.7	8
58	Defects detection in infrared thermography by deep learning algorithm. , 2020, , .		10
59	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>. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2020, 62, 123-128.	0.6	2
60	Inspecting historical vaulted ceilings by means of physical and chemical analyses: an integrated approach combining active infrared thermography and reflectance spectroscopy. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2020, 62, 144-151.	0.6	1
61	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.	3.6	35
62	Robotized Line-Scan Thermographic Mid-Wave Infrared Vision for Artwork Inspection: A Study on Famous Mock-Ups. <i>Springer Proceedings in Materials</i> , 2019, , 64-74.	0.3	1
63	Validation of Anatomical Sites for the Measurement of Infrared Body Surface Temperature Variation in Response to Handling and Transport. <i>Animals</i> , 2019, 9, 425.	2.3	25
64	Automated defect classification in infrared thermography based on a neural network. <i>NDT and E International</i> , 2019, 107, 102147.	3.7	47
65	On the Use of Infrared Thermography and Acoustoâ€”Ultrasonics NDT Techniques for Ceramic-Coated Sandwich Structures. <i>Energies</i> , 2019, 12, 2537.	3.1	9
66	Incremental Low Rank Noise Reduction for Robust Infrared Tracking of Body Temperature during Medical Imaging. <i>Electronics (Switzerland)</i> , 2019, 8, 1301.	3.1	8
67	Automatic Detection and Delimitation of Internal Moisture in Mosaics from Thermographic Sequences. <i>Experimental Tests. Proceedings (mdpi)</i> , 2019, 27, .	0.2	3
68	Unmanned Aerial Vehicle Video-Based Target Tracking Algorithm Using Sparse Representation. <i>IEEE Internet of Things Journal</i> , 2019, 6, 9689-9706.	8.7	30
69	Using Near Infrared for Studying Lemming Subnival Behavior in the High Arctic. <i>Proceedings (mdpi)</i> , 2019, 27, .	0.2	4
70	Infrared Non-Destructive Testing via Semi-Nonnegative Matrix Factorization. <i>Proceedings (mdpi)</i> , 2019, 27, .	0.2	2
71	Precious walls built in indoor environments inspected numerically and experimentally within long-wave infrared (LWIR) and radio regions. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 137, 1083-1111.	3.6	22
72	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.	2.9	43

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73	Application of NDT thermographic imaging of aerospace structures. Infrared Physics and Technology, 2019, 97, 456-466.	2.9	52
74	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
75	Mineral identification in LWIR hyperspectral imagery applying sparse-based clustering. Quantitative InfraRed Thermography Journal, 2019, 16, 147-162.	4.2	6
76	Thermography is cool: Defect detection using liquid nitrogen as a stimulus. NDT and E International, 2019, 102, 137-143.	3.7	15
77	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
78	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
79	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
80	Application of Sparse Non-Negative Matrix Factorization in infrared non-destructive testing. , 2019, , .		2
81	Defect detection based on monogenic signal processing. , 2019, , .		1
82	Autonomous systems thermographic NDT of composite structures. , 2019, , .		0
83	Particle swarm optimization-based local entropy weighted histogram equalization for infrared image enhancement. Infrared Physics and Technology, 2018, 91, 164-181.	2.9	30
84	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
85	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
86	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
87	Impact Modelling and A Posteriori Non-destructive Evaluation of Homogeneous Particleboards of Sugarcane Bagasse. Journal of Nondestructive Evaluation, 2018, 37, 1.	2.4	13
88	A multimodal 3D framework for fire characteristics estimation. Measurement Science and Technology, 2018, 29, 025404.	2.6	15
89	Parameter Optimization of Robotize Line Scan Thermography for CFRP Composite Inspection. Journal of Nondestructive Evaluation, 2018, 37, 1.	2.4	13
90	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

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91	Optimised dynamic line scan thermographic detection of CFRP inserts using FE updating and POD analysis. <i>NDT and E International</i> , 2018, 93, 141-149.	3.7	26
92	Qualitative Assessments via Infrared Vision of Sub-surface Defects Present Beneath Decorative Surface Coatings. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	2.1	10
93	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.	11.3	81
94	Comparative study on point and line thermographic inspection for fiber orientation assessment of randomly oriented strand material. <i>Journal of the Brazilian Computer Society</i> , 2018, 24, .	1.3	0
95	A Comparative Study of Enhanced Infrared Image Processing for Foreign Object Detection in Lightweight Composite Honeycomb Structures. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	2.1	6
96	Terahertz Amplitude Polynomial Principle Component Regression for Aramid-Basalt Hybrid Composite Laminate Inspection. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 5601-5609.	11.3	16
97	A Level Set Method for Infrared Image Segmentation Using Global and Local Information. <i>Remote Sensing</i> , 2018, 10, 1039.	4.0	16
98	Terahertz Image Improvement for an Environmentally Friendly Sandwich Structure. , 2018, , .		0
99	IRNDT Inspection Via Sparse Principal Component Thermography. , 2018, , .		4
100	The use of pulse-compression thermography for detecting defects in paintings. <i>NDT and E International</i> , 2018, 98, 147-154.	3.7	56
101	Thermochemical monitoring of brucite carbonation using passive infrared thermography. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 130, 43-52.	3.6	5
102	Automated Dynamic Inspection Using Active Infrared Thermography. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 5648-5657.	11.3	31
103	Comparison and evaluation of geometric calibration methods for infrared cameras to perform metric measurements on a plane. <i>Applied Optics</i> , 2018, 57, D1.	1.8	6
104	Continuum removal for ground-based LWIR hyperspectral infrared imagery applying non-negative matrix factorization. <i>Applied Optics</i> , 2018, 57, 6219.	1.8	14
105	Thermographic Non-Destructive Evaluation for Natural Fiber-Reinforced Composite Laminates. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 240.	2.5	20
106	Total Variation Regularization Term-Based Low-Rank and Sparse Matrix Representation Model for Infrared Moving Target Tracking. <i>Remote Sensing</i> , 2018, 10, 510.	4.0	28
107	Infrared Image Enhancement Using Adaptive Histogram Partition and Brightness Correction. <i>Remote Sensing</i> , 2018, 10, 682.	4.0	49
108	Machine Learning and Infrared Thermography for Fiber Orientation Assessment on Randomly-Oriented Strands Parts. <i>Sensors</i> , 2018, 18, 288.	3.8	23

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109	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.	2.9	28
110	Panoramic view of the heat flux inside an insulated vehicle by infrared thermography. <i>Quantitative InfraRed Thermography Journal</i> , 2018, 15, 68-80.	4.2	3
111	An Infrared-Induced Terahertz Imaging Modality for Foreign Object Detection in a Lightweight Honeycomb Composite Structure. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 5629-5636.	11.3	33
112	Eddy current pulsed thermography for ballistic impact evaluation in basalt-carbon hybrid composite panels. <i>Applied Optics</i> , 2018, 57, D74.	1.8	18
113	Enhanced Infrared Image Processing for Impacted Carbon/Glass Fiber-Reinforced Composite Evaluation. <i>Sensors</i> , 2018, 18, 45.	3.8	15
114	Atmospheric Carbon Mineralization in an Industrial-Scale Chrysotile Mining Waste Pile. <i>Environmental Science & Technology</i> , 2018, 52, 8050-8057.	10.0	13
115	Nondestructive Investigation of Paintings on Canvas by Infrared Thermography, Air-Coupled Ultrasound, and X-Ray Radiography. , 2018, , 367-374.		2
116	Nondestructive evaluation of low-velocity impact-induced damage in basalt-carbon hybrid composite laminates using eddy current-pulsed thermography. <i>Optical Engineering</i> , 2018, 58, 1.	1.0	5
117	A novel optical air-coupled ultrasound NDE sensing technique compared with infrared thermographic NDT on impacted composite materials. , 2018, , .		4
118	Nondestructive evaluation using eddy current pulsed thermographic imaging of basalt-carbon hybrid fiber-reinforced composite laminates subjected to low-velocity impact loadings. , 2018, , .		1
119	Multisensor image fusion approach utilizing hybrid pre-enhancement and double nonsubsampling contourlet transform. <i>Journal of Electronic Imaging</i> , 2017, 26, 010501.	0.9	3
120	The multi-dimensional ensemble empirical mode decomposition (MEEMD). <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 1841-1858.	3.6	35
121	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.	2.9	48
122	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.	3.7	37
123	Evaluation of the state of conservation of mosaics: Simulations and thermographic signal processing. <i>International Journal of Thermal Sciences</i> , 2017, 117, 287-315.	4.9	18
124	Modified algorithm for mineral identification in LWIR hyperspectral imagery. , 2017, , .		1
125	Detection of insulation flaws and thermal bridges in insulated truck box panels. <i>Quantitative InfraRed Thermography Journal</i> , 2017, 14, 275-284.	4.2	4
126	Liquid nitrogen cooling in IR thermography applied to steel specimen. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1

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127	Investigation of the influence of spatial degrees of freedom on thermal infrared measurement. Proceedings of SPIE, 2017, , .	0.8	0
128	Numerical and experimental analyses for natural and non-natural impacted composites via thermographic inspection, ultrasonic C-scan and terahertz imaging. , 2017, , .		2
129	Thermal NDT applying Candid Covariance-Free Incremental Principal Component Thermography (CCIPCT). , 2017, , .		5
130	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
131	Satellite image fusion by using a combination of IHS and HPM methods. Proceedings of SPIE, 2017, , .	0.8	1
132	Implementation of advanced signal processing techniques on Line-Scan Thermography data. , 2017, , .		3
133	Optimization of the Inspection of Large Composite Materials Using Robotized Line Scan Thermography. Journal of Nondestructive Evaluation, 2017, 36, 1.	2.4	47
134	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
135	Passive Mineral Carbonation of Mg-rich Mine Wastes by Atmospheric CO ₂ . Energy Procedia, 2017, 114, 6083-6086.	1.8	19
136	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
137	Quantitative assessment in thermal image segmentation for artistic objects. , 2017, , .		3
138	Automatic IRNDT inspection applying sparse PCA-based clustering. , 2017, , .		9
139	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
140	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
141	Artificial Neural Networks and Infrared Thermography for Fiber Orientation Assessment. , 2017, , .		3
142	Multimodal three-dimensional vision for wildland fires detection and analysis. , 2017, , .		2
143	Nondestructive Evaluation of Carbon Fiber Bicycle Frames Using Infrared Thermography. Sensors, 2017, 17, 2679.	3.8	15
144	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

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145	Automated assessment and tracking of human body thermal variations using unsupervised clustering. Applied Optics, 2016, 55, D162.	2.1	19
146	Mapping of the Indoor Conditions by Infrared Thermography. Journal of Imaging, 2016, 2, 10.	3.0	8
147	Experimental Evaluation of Pulsed Thermography, Lock-in Thermography and Vibrothermography on Foreign Object Defect (FOD) in CFRP. Sensors, 2016, 16, 743.	3.8	34
148	Information and Communication Technologies in Engineering Education. MATEC Web of Conferences, 2016, 79, 01044.	0.2	7
149	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
150	Carbon fiber composite inspection and defect characterization using active infrared thermography: numerical simulations and experimental results. Applied Optics, 2016, 55, D46.	2.1	37
151	Infrared thermography for CFRP inspection: computational model and experimental results. Proceedings of SPIE, 2016, , .	0.8	4
152	Fracture behavior of reinforced aluminum alloy matrix composites using thermal imaging tools. , 2016, , .		3
153	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
154	Emissivity retrieval from indoor hyperspectral imaging of mineral grains. , 2016, , .		3
155	Mineral identification in hyperspectral imaging using Sparse-PCA. Proceedings of SPIE, 2016, , .	0.8	4
156	Infrared thermography and NDT: 2050 horizon. Quantitative InfraRed Thermography Journal, 2016, 13, 210-231.	4.2	38
157	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
158	Thermal (IR) and Other NDT Techniques for Improved Material Inspection. Journal of Nondestructive Evaluation, 2016, 35, 1.	2.4	96
159	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
160	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
161	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
162	Diagnostics of wall paintings: A smart and reliable approach. Journal of Cultural Heritage, 2016, 18, 229-241.	3.3	24

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163	Monitoring of jute/hemp fiber hybrid laminates by nondestructive testing techniques. <i>Science and Engineering of Composite Materials</i> , 2016, 23, 283-300.	1.4	22
164	Basalt fibre laminates non-destructively inspected after low-velocity impacts. <i>FME Transactions</i> , 2016, 44, 380-385.	1.4	4
165	How to Retrieve Information Inherent to Old Restorations Made on Frescoes of Particular Artistic Value Using Infrared Vision?. <i>International Journal of Thermophysics</i> , 2015, 36, 3051-3070.	2.1	18
166	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
167	Fiber orientation assessment in complex shaped parts reinforced with carbon fiber using infrared thermography. <i>Quantitative InfraRed Thermography Journal</i> , 2015, 12, 64-79.	4.2	14
168	Role of the masonry in paintings during a seismic event analyzed by infrared vision. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
169	Thermal diffusivity estimation with quantitative pulsed phase thermography. , 2015, , .		2
170	Integration of infrared and optical imaging techniques for the nondestructive inspection of aeronautic parts. , 2015, , .		3
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