

# Gui Yun Tian

## List of Publications by Year in descending order

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417  
papers

13,327  
citations

20759

60  
h-index

43802

91  
g-index

420  
all docs

420  
docs citations

420  
times ranked

7231  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pulsed eddy current array design and electromagnetic imaging for defects detection in metallic materials. <i>Nondestructive Testing and Evaluation</i> , 2022, 37, 81-99.	1.1	9
2	Tensor integrated total variation regularization for thermography NDT of composites. <i>Infrared Physics and Technology</i> , 2022, 123, 104144.	1.3	0
3	Depth quantification of rolling contact fatigue crack using skewness of eddy current pulsed thermography in stationary and scanning modes. <i>NDT and E International</i> , 2022, 128, 102630.	1.7	30
4	Comparison of Repeatability and Stability of Residual Magnetic Field for Stress Characterization in Elastic and Plastic Ranges of Silicon Steels. <i>Sensors</i> , 2022, 22, 3052.	2.1	2
5	Differential ECT Probe Design and Investigation for Detection of Rolling Contact Fatigue Cracks With Different Orientations. <i>IEEE Sensors Journal</i> , 2022, 22, 11615-11625.	2.4	20
6	Quantitative Crack Depth Monitoring Based on Traveling Wave at Millimeter-Wave Frequency. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 8321-8329.	3.1	3
7	Influence of Varying Tensile Stress on Domain Motion. <i>Materials</i> , 2022, 15, 3399.	1.3	3
8	Novel infrared-terahertz fusion 3D non-invasive imaging of plant fibre-reinforced polymer composites. <i>Composites Science and Technology</i> , 2022, 226, 109526.	3.8	9
9	RLC Parameters Measurement and Fusion for High-Sensitivity Inductive Sensors. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-11.	2.4	3
10	Characterisation and evaluation of paint-coated marine corrosion in carbon steel using eddy current pulsed thermography. <i>NDT and E International</i> , 2022, 130, 102678.	1.7	8
11	Autonomous dynamic line-scan continuous-wave terahertz non-destructive inspection system combined with unsupervised exposure fusion. <i>NDT and E International</i> , 2022, 132, 102705.	1.7	7
12	Segmentation-Oriented Compressed Sensing for Efficient Impact Damage Detection on CFRP Materials. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 2528-2537.	3.7	7
13	Multiphysics Structured Eddy Current and Thermography Defects Diagnostics System in Moving Mode. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 2566-2578.	7.2	24
14	Characterization of Rolling Contact Fatigue Cracks in Rails by Eddy Current Pulsed Thermography. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 2307-2315.	7.2	24
15	Measurement of Multi-Component Hydraulic Loads With Compensation of Dynamic Load. <i>IEEE Sensors Journal</i> , 2021, 21, 231-238.	2.4	3
16	Correlation of magnetic field and stress-induced magnetic domain reorientation with Barkhausen Noise. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 523, 167588.	1.0	14
17	Time-Response-Histogram-Based Feature of Magnetic Barkhausen Noise for Material Characterization Considering Influences of Grain and Grain Boundary under In Situ Tensile Test. <i>Sensors</i> , 2021, 21, 2350.	2.1	4
18	Investigation of DC Electromagnetic-Based Motion Induced Eddy Current on NDT for Crack Detection. <i>IEEE Sensors Journal</i> , 2021, 21, 7449-7457.	2.4	40

#	ARTICLE	IF	CITATIONS
19	Study on a new electromagnetic flowmeter based on three-value trapezoidal wave excitation. Flow Measurement and Instrumentation, 2021, 78, 101882.	1.0	7
20	Wireless stress measurement on metal surface based on passive integrated RFID sensor tag. , 2021, , .		2
21	Pipeline In-Line Inspection Method, Instrumentation and Data Management. Sensors, 2021, 21, 3862.	2.1	62
22	Visual quantitative detection of rail surface crack based on laser ultrasonic technology. Optik, 2021, 237, 166732.	1.4	24
23	Prediction of Inhomogeneous Stress in Metal Structures: A Hybrid Approach Combining Eddy Current Technique and Finite Element Method. Journal of Sensors, 2021, 2021, 1-9.	0.6	1
24	Differential Coupling Double-Layer Coil for Eddy Current Testing With High Lift-Off. IEEE Sensors Journal, 2021, 21, 18146-18155.	2.4	22
25	Tomographic Reconstruction of Rolling Contact Fatigues in Rails Using 3D Eddy Current Pulsed Thermography. IEEE Sensors Journal, 2021, 21, 18488-18496.	2.4	7
26	An Amorphousâ€“Crystalline Nanosheet Arrays Structure for Ultrahigh Electrochemical Performance Supercapattery. Small, 2021, 17, e2102565.	5.2	22
27	A Novel Probe of DC Electromagnetic NDT Based on Drag Effect: Design and Application in Crack Characterization of High-Speed Moving Ferromagnetic Material. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	2.4	14
28	Current Trends and Perspectives of Detection and Location for Buried Non-Metallic Pipelines. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	1.9	13
29	Circumferential and Longitudinal Defect Detection Using Multiphysics Fusion Electromagnetic Sensing Probe. , 2021, , .		1
30	Magnetic Barkhausen Noise Transient Analysis for Microstructure Evolution Characterization with Tensile Stress in Elastic and Plastic Status. Sensors, 2021, 21, 8310.	2.1	7
31	Micro-macro characteristics between domain wall motion and magnetic Barkhausen noise under tensile stress. Journal of Magnetism and Magnetic Materials, 2020, 493, 165719.	1.0	48
32	Feature-Supervised Compressed Sensing for Microwave Imaging Systems. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5287-5297.	2.4	6
33	Noncontact Thickness Measurement of Multilayer Coatings on Metallic Substrate Using Pulsed Terahertz Technology. IEEE Sensors Journal, 2020, 20, 3162-3171.	2.4	21
34	Natural Crack Diagnosis System Based on Novel L-Shaped Electromagnetic Sensing Thermography. IEEE Transactions on Industrial Electronics, 2020, 67, 9703-9714.	5.2	47
35	Quantitative Evaluation of Crack Depths on Thin Aluminum Plate Using Eddy Current Pulse-Compression Thermography. IEEE Transactions on Industrial Informatics, 2020, 16, 3963-3973.	7.2	32
36	A B-Spline Method With AIS Optimization for 2-D IoT-Based Overpressure Reconstruction. IEEE Internet of Things Journal, 2020, 7, 2005-2013.	5.5	9

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37	Investigation on Velocity Effect in Pulsed Eddy Current Technique for Detection Cracks in Ferromagnetic Material. IEEE Transactions on Magnetics, 2020, 56, 1-8.	1.2	15
38	Comparison on pipeline welds and integrity through different electromagnetic NDT techniques. , 2020, , ,		1
39	Electrodes Optimization of an Annular Flow Electromagnetic Measurement System for Drilling Engineering. IEEE Access, 2020, 8, 138481-138492.	2.6	3
40	Preface: advanced electromagnetic non-destructive evaluation and smart monitoring. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190580.	1.6	0
41	Physic perspective fusion of electromagnetic acoustic transducer and pulsed eddy current testing in non-destructive testing system. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190608.	1.6	10
42	Wireless power transfer-based eddy current non-destructive testing using a flexible printed coil array. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190579.	1.6	28
43	A Lightweight Wireless Overpressure Node based Efficient Monitoring for Shock Waves. IEEE/ASME Transactions on Mechatronics, 2020, , 1-1.	3.7	4
44	Resonant frequency tracking mode on eddy current pulsed thermography non-destructive testing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190607.	1.6	1
45	Optimal design of shear vertical wave electromagnetic acoustic transducers in resonant mode. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 639-647.	0.3	1
46	Enhanced Infrared Sparse Pattern Extraction and Usage for Impact Evaluation of Basalt-Carbon Hybrid Composites by Pulsed Thermography. Sensors, 2020, 20, 7159.	2.1	5
47	A cylindrical ring dielectric resonator based passive wireless sensor for position insensitive crack monitoring. Sensors and Actuators A: Physical, 2020, 316, 112420.	2.0	8
48	Multi-objective εl-based feature selection for DDoS attack detection in IoT networks. IET Networks, 2020, 9, 120-127.	1.1	62
49	A Comparison of Feature Extraction Techniques for Delamination of CFRP Using Eddy Current Pulse-Compression Thermography. IEEE Sensors Journal, 2020, 20, 12415-12422.	2.4	17
50	A High-Accuracy Least-Time-Domain Mixture Features Machine-Fault Diagnosis Based on Wireless Sensor Network. IEEE Systems Journal, 2020, 14, 4101-4109.	2.9	6
51	Multifunctional flexible sensor array-based damage monitoring for switch rail using passive and active sensing. Smart Materials and Structures, 2020, 29, 095013.	1.8	12
52	Research on Moisture Content Detection of Wood Components Through Wi-Fi Channel State Information and Deep Extreme Learning Machine. IEEE Sensors Journal, 2020, 20, 9977-9988.	2.4	9
53	Non-Contact Degradation Evaluation for IGBT Modules Using Eddy Current Pulsed Thermography Approach. Energies, 2020, 13, 2613.	1.6	10
54	Physical perspective forward-inverse learning for ultrasonic sensing diagnosis in small diameter and thin-wall tube. Ultrasonics, 2020, 105, 106115.	2.1	7

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55	An Intrusion Detection System Against DDoS Attacks in IoT Networks. , 2020, , .		63
56	A Deep Learning-Based Ultrasonic Pattern Recognition Method for Inspecting Girth Weld Cracking of Gas Pipeline. IEEE Sensors Journal, 2020, 20, 7997-8006.	2.4	45
57	Microcracks Detection Based on Shuttle-Shaped Electromagnetic Thermography. IEEE Sensors Journal, 2020, 20, 12961-12971.	2.4	6
58	A Model with Leaf Area Index and Trunk Diameter for LoRaWAN Radio Propagation in Eastern China Mixed Forest. Journal of Sensors, 2020, 2020, 1-16.	0.6	17
59	Investigation of layer interface model of multi-layer structure using semi-analytical and FEM analysis for eddy current pulsed thermography. , 2020, , .		1
60	Depth quantification of surface-breaking cracks in ferromagnetic materials using DC-biased magnetization based induction thermography. Mechanical Systems and Signal Processing, 2020, 141, 106719.	4.4	15
61	Crack characterization in ferromagnetic steels by pulsed eddy current technique based on GA-BP neural network model. Journal of Magnetism and Magnetic Materials, 2020, 500, 166412.	1.0	39
62	Investigation of Signal Conditioning for Tx-Rx PEC Probe at High Lift-Off Using a Modified Maxwell's Bridge. IEEE Sensors Journal, 2020, 20, 2560-2569.	2.4	7
63	Study on a New Electromagnetic Flow Measurement Technology Based on Differential Correlation Detection. Sensors, 2020, 20, 2489.	2.1	17
64	Electromagnetic Flow Detection Technology Based on Correlation Theory. IEEE Access, 2020, 8, 56203-56213.	2.6	9
65	Pulsed Air-Flow Thermography for Natural Crack Detection and Evaluation. IEEE Sensors Journal, 2020, 20, 8091-8097.	2.4	8
66	Chipless RFID sensor for corrosion characterization based on frequency selective surface and feature fusion. Smart Materials and Structures, 2020, 29, 125010.	1.8	42
67	Analysis of Lift-Off Effect on Transmitter-Receiver Probe in Eddy Current Testing. Studies in Applied Electromagnetics and Mechanics, 2020, , .	0.2	2
68	Developments in GPR Based NDT for Ballastless Track of High-Speed Railways. Studies in Applied Electromagnetics and Mechanics, 2020, , .	0.2	1
69	Application of Compressed Sensing in NB-IoT-Based Structural Health Monitoring of Rail Tracks. Studies in Applied Electromagnetics and Mechanics, 2020, , .	0.2	0
70	Edge Detection of Metal Thickness of Electromagnetic Acoustic Transducer Based on Super-Heterodyne Phase-Sensitive Detector. Studies in Applied Electromagnetics and Mechanics, 2020, , .	0.2	0
71	Impact Damages Detection on CFRP Using Eddy Current Pulsed Thermography. Studies in Applied Electromagnetics and Mechanics, 2020, , .	0.2	1
72	Instrumental Configuration of Electromagnetic Thermography and Optical Thermography. Studies in Applied Electromagnetics and Mechanics, 2020, , .	0.2	0

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73	Fast Localization of Impact Damage on Woven CFRP Based on Sparse Microwave Imaging. Studies in Applied Electromagnetics and Mechanics, 2020, , .	0.2	1
74	Corrosion Evaluation Using Clustering Method Based on Eddy Current Pulsed Thermography. Studies in Applied Electromagnetics and Mechanics, 2020, , .	0.2	0
75	Microwave sensor based on complementary circular spiral resonator for non-destructive testing of cracks in dielectric plate. , 2020, , .		0
76	CFRP Impact Damage Inspection Based on Manifold Learning Using Ultrasonic Induced Thermography. IEEE Transactions on Industrial Informatics, 2019, 15, 2648-2659.	7.2	30
77	Physical layer authentication scheme with channel based tag padding sequence. IET Communications, 2019, 13, 1776-1780.	1.5	10
78	Comparison of time and frequency domain featuresâ€™ immunity against lift-off in pulse-compression eddy current imaging. NDT and E International, 2019, 107, 102152.	1.7	22
79	Wireless Localization of Spallings in Switch-Rails With Guided Waves Based on a Timeâ€™Frequency Method. IEEE Sensors Journal, 2019, 19, 11050-11062.	2.4	11
80	Fusion model of inductive thermography and ultrasound for nondestructive testing. Infrared Physics and Technology, 2019, 101, 162-170.	1.3	9
81	Determination of complex permittivity of thin dielectric samples based on high-q microstrip resonance sensor. Sensors and Actuators A: Physical, 2019, 296, 31-37.	2.0	16
82	Investigations for inclination angle characterization of angular defects using eddy current pulsed thermography. Infrared Physics and Technology, 2019, 100, 73-81.	1.3	5
83	Wavelet Domain Based Defect Detection using Optical Thermography. , 2019, , .		1
84	Variational mode decomposition linked wavelet method for EMAT denoise with large lift-off effect. NDT and E International, 2019, 107, 102149.	1.7	34
85	Wireless Power Transfer Based Non-Destructive Evaluation of Cracks in Aluminum Material. IEEE Sensors Journal, 2019, 19, 10529-10536.	2.4	25
86	Non-destructive hardness prediction for 18CrNiMo7-6 steel based on feature selection and fusion of Magnetic Barkhausen Noise. NDT and E International, 2019, 107, 102138.	1.7	40
87	A Configurable Dielectric Resonator-Based Passive Wireless Sensor for Crack Monitoring. IEEE Transactions on Antennas and Propagation, 2019, 67, 5746-5749.	3.1	21
88	Comparative analysis of eddy current pulsed thermography and long pulse thermography for damage detection in metals and composites. NDT and E International, 2019, 107, 102155.	1.7	49
89	A Survey of Energy Efficient IoT Network in Cloud Environment. , 2019, , .		8
90	A Novel Distributed Linear-Spatial-Array Sensing System Based on Multichannel LPWAN for Large-Scale Blast Wave Monitoring. IEEE Internet of Things Journal, 2019, 6, 9679-9688.	5.5	23

#	ARTICLE	IF	CITATIONS
91	Uncertainty metric in model-based eddy current inversion using the adaptive Monte Carlo method. Measurement: Journal of the International Measurement Confederation, 2019, 137, 323-331.	2.5	11
92	Multi-Layer Magnetic Focusing Sensor Structure for Pulsed Remote Field Eddy Current. IEEE Sensors Journal, 2019, 19, 2490-2499.	2.4	24
93	Microwave open-ended waveguide for detection and characterisation of FBHs in coated GFRP pipes. Composite Structures, 2019, 225, 111080.	3.1	26
94	Multiresonance Chipless RFID Sensor Tag for Metal Defect Characterization Using Principal Component Analysis. IEEE Sensors Journal, 2019, 19, 8037-8046.	2.4	64
95	Design and optimisation of mutual inductance based pulsed eddy current probe. Measurement: Journal of the International Measurement Confederation, 2019, 144, 402-409.	2.5	49
96	Feature-Based Registration for 3D Eddy Current Pulsed Thermography. IEEE Sensors Journal, 2019, 19, 6998-7004.	2.4	30
97	Repeatability and stability study of residual magnetic field for domain wall characterization. Journal of Magnetism and Magnetic Materials, 2019, 485, 391-400.	1.0	19
98	Deep Learning Models for Cyber Security in IoT Networks. , 2019, , .		189
99	Correlating non-linear behavior of in-plane magnetic field and local domain wall velocities for quantitative stress evaluation. AIP Advances, 2019, 9, 015325.	0.6	6
100	Influence of magnetic domain wall orientation on Barkhausen noise and magneto-mechanical behavior in electrical steel. Journal Physics D: Applied Physics, 2019, 52, 265001.	1.3	18
101	Comparison Study of Different Features for Pocket Length Quantification of Angular Defects Using Eddy Current Pulsed Thermography. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1373-1381.	2.4	23
102	Novel Yoke Structured Electromagnetic Thermography for Inspection of Natural Fatigue Cracks. , 2019, , .		1
103	Attention structured Pattern Deep Learning for region induction thermography NDT. , 2019, , .		0
104	Mechanism Hybrid EMAT and Eddy Current Sensing Detection for Surface and Internal Defects NDT. , 2019, , .		3
105	Measurement of Annular Flow for Drilling Engineering by Electromagnetic Flowmeter Based on Double-Frequency Excitation. Journal of Sensors, 2019, 2019, 1-14.	0.6	7
106	Visual Detection of AM Surface Defects Based on Laser Ultrasound Technology. , 2019, , .		1
107	INDOOR LOCALIZATION SYSTEMS FOR PASSIVE UHF RFID TAG BASED ON RSSI RADIO MAP DATABASE. Progress in Electromagnetics Research M, 2019, 77, 51-60.	0.5	4
108	UHF RFID Sensor Array for Bending stress assessment. , 2019, , .		5

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109	Imaging-based NDT Methods for Electronic Devices. , 2019, , .		1
110	Investigation of Skewness Feature for Evaluation of Defects Using Eddy Current Pulsed Thermography. IEEE Sensors Journal, 2019, 19, 12118-12125.	2.4	12
111	Current Applications of Gas Sensor Based on 2-D Nanomaterial: A Mini Review. Frontiers in Chemistry, 2019, 7, 839.	1.8	46
112	Investigation of ultrasonic NDT for small diameter and thin-wall tube. , 2019, , .		4
113	Domain wall characterization inside grain and around grain boundary under tensile stress. Journal of Magnetism and Magnetic Materials, 2019, 471, 39-48.	1.0	26
114	AR-Aided Smart Sensing for In-Line Condition Monitoring of IGBT Wafer. IEEE Transactions on Industrial Electronics, 2019, 66, 8197-8204.	5.2	7
115	Extraction of LOI Features From Spectral Pulsed Eddy Current Signals for Evaluation of Ferromagnetic Samples. IEEE Sensors Journal, 2019, 19, 189-195.	2.4	39
116	Microwave-Based SAR Technique for Pipeline Inspection Using Autofocus Range-Doppler Algorithm. IEEE Sensors Journal, 2019, 19, 1777-1787.	2.4	24
117	Fast classification for rail defect depths using a hybrid intelligent method. Optik, 2019, 180, 455-468.	1.4	38
118	Temperature Independent Defect Monitoring Using Passive Wireless RFID Sensing System. IEEE Sensors Journal, 2019, 19, 1525-1532.	2.4	24
119	DC-Biased Magnetization Based Eddy Current Thermography for Subsurface Defect Detection. IEEE Transactions on Industrial Informatics, 2019, 15, 6252-6259.	7.2	52
120	Weld Crack Detection Based on Region Electromagnetic Sensing Thermography. IEEE Sensors Journal, 2019, 19, 751-762.	2.4	11
121	AKAloTs: authenticated key agreement for Internet of Things. Wireless Networks, 2019, 25, 3081-3101.	2.0	38
122	Chipless RFID Sensor Tag for Metal Crack Detection and Characterization. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2452-2462.	2.9	141
123	Novel Ultrasound System With Intelligent Compensation for High Precision Measurement of Thin Wall Tube. IEEE Sensors Journal, 2018, 18, 6633-6643.	2.4	12
124	Lift-Off Point of Intersection in Spectral Pulsed Eddy Current Signals for Thickness Measurement. , 2018, 2, 1-4.		22
125	Periodic Pulsed Thermography for Inner Defects Detection of Lead-Steel Bonded Structure. IEEE Sensors Journal, 2018, 18, 4679-4688.	2.4	9
126	Physics-Based Image Segmentation Using First Order Statistical Properties and Genetic Algorithm for Inductive Thermography Imaging. IEEE Transactions on Image Processing, 2018, 27, 2160-2175.	6.0	61

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127	Thermal Pattern Contrast Diagnostic of Microcracks With Induction Thermography for Aircraft Braking Components. IEEE Transactions on Industrial Informatics, 2018, 14, 5563-5574.	7.2	44
128	Emissivity correction using spectrum correlation of infrared and visible images. Sensors and Actuators A: Physical, 2018, 270, 8-17.	2.0	24
129	System identification-based frequency domain feature extraction for defect detection and characterization. NDT and E International, 2018, 98, 70-79.	1.7	14
130	Multicarrier SAR Image Reconstruction Using Integrated MUSIC-LSE Algorithm. IEEE Access, 2018, 6, 22827-22838.	2.6	14
131	Steel Corrosion Stages Characterization Using Open-Ended Rectangular Waveguide Probe. IEEE Sensors Journal, 2018, 18, 1054-1062.	2.4	18
132	Variational Bayesian Subgroup Adaptive Sparse Component Extraction for Diagnostic Imaging System. IEEE Transactions on Industrial Electronics, 2018, 65, 8142-8152.	5.2	55
133	Spatial-time-state fusion algorithm for defect detection through eddy current pulsed thermography. Infrared Physics and Technology, 2018, 90, 133-145.	1.3	10
134	HOOSC: heterogeneous online/offline signcryption for the Internet of Things. Wireless Networks, 2018, 24, 3141-3160.	2.0	29
135	IQ signal based RFID sensors for defect detection and characterisation. Sensors and Actuators A: Physical, 2018, 269, 14-21.	2.0	25
136	Comparative Analysis of In-line Inspection Equipments and Technologies. IOP Conference Series: Materials Science and Engineering, 2018, 382, 032021.	0.3	11
137	Induction Thermography for Rail Nondestructive Testing under Speed Effect. , 2018, , .		2
138	An Experimental Comparison of LED and Eddy Current Pulse-Compression Thermography on an Impact Damage CFRP Benchmark Sample. , 2018, , .		3
139	Depolarizing Chipless RFID Sensor Tag for Characterization of Metal Cracks Based on Dual Resonance Features. , 2018, , .		16
140	Variational Bayes Sub-Group Adaptive Sparse Component Extraction for Diagnostic Imaging System. , 2018, , .		3
141	Pattern Deep Region Learning for Crack Detection in Thermography Diagnosis System. Metals, 2018, 8, 612.	1.0	29
142	Study of Rotating Magnet Array-Based Motion-Induced Eddy Current Thermography. IEEE Transactions on Magnetics, 2018, 54, 1-5.	1.2	7
143	Remote Authentication Schemes for Wireless Body Area Networks Based on the Internet of Things. IEEE Internet of Things Journal, 2018, 5, 4926-4944.	5.5	55
144	Passive UHF RFID Tag as a Sensor for Crack Depths. IEEE Sensors Journal, 2018, 18, 9867-9873.	2.4	12

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145	Comparative Study of Eddy Current Pulsed and Long Pulse Optical Thermography for Defect Detection in Aluminium Plate. , 2018, , .		1
146	Indoor distance estimation for passive UHF RFID tag based on RSSI and RCS. Measurement: Journal of the International Measurement Confederation, 2018, 127, 425-430.	2.5	43
147	Corrigendum to "Enhanced Measurement of Paper Basis Weight Using Phase Shift in Terahertz Time-Domain Spectroscopy" Journal of Sensors, 2018, 2018, 1-1.	0.6	0
148	Sparse ensemble matrix factorization for debond detection in CFRP composites using optical thermography. Infrared Physics and Technology, 2018, 92, 392-401.	1.3	14
149	UHF RFID system for wirelessly detection of corrosion based on resonance frequency shift in forward interrogation power. IET Microwaves, Antennas and Propagation, 2018, 12, 1877-1884.	0.7	13
150	Comments on "UHF RFID Tag Antenna-Based Sensing for Corrosion Detection and Characterization Using Principal Component Analysis" IEEE Transactions on Antennas and Propagation, 2018, 66, 6465-6465.	3.1	2
151	Wireless Passive Ultra High Frequency RFID Antenna Sensor for Surface Crack Monitoring and Quantitative Analysis. Sensors, 2018, 18, 2130.	2.1	37
152	Image processing based quantitative damage evaluation in composites with long pulse thermography. NDT and E International, 2018, 99, 93-104.	1.7	95
153	Investigation of a new feature for angular defect quantification by eddy current pulsed thermography. , 2018, , .		2
154	Probability of Detection for Eddy Current Pulsed Thermography of Angular Defect Quantification. IEEE Transactions on Industrial Informatics, 2018, 14, 5658-5666.	7.2	33
155	Feature Extraction for Robust Crack Monitoring Using Passive Wireless RFID Antenna Sensors. IEEE Sensors Journal, 2018, 18, 6273-6280.	2.4	19
156	Efficiency Improvement of Nonuniformly Aged PV Arrays. IEEE Transactions on Power Electronics, 2017, 32, 1124-1137.	5.4	36
157	Structural Health Monitoring Framework Based on Internet of Things: A Survey. IEEE Internet of Things Journal, 2017, 4, 619-635.	5.5	300
158	Non-invasive load monitoring of induction motor drives using magnetic flux sensors. IET Power Electronics, 2017, 10, 189-195.	1.5	8
159	Electromagnetic pulsed thermography for natural cracks inspection. Scientific Reports, 2017, 7, 42073.	1.6	22
160	Quantitative Approach for Thickness and Conductivity Measurement of Monolayer Coating by Dual-Frequency Eddy Current Technique. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1874-1882.	2.4	40
161	Pulsed Eddy Current Non-destructive Testing and Evaluation: A Review. Chinese Journal of Mechanical Engineering (English Edition), 2017, 30, 500-514.	1.9	163
162	Smart Compressed Sensing for Online Evaluation of CFRP Structure Integrity. IEEE Transactions on Industrial Electronics, 2017, 64, 9608-9617.	5.2	31

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163	Thermal Analysis of Solder Joint Based on Eddy Current Pulsed Thermography. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2017, 7, 1111-1118.	1.4	15
164	Characterization of applied tensile stress using domain wall dynamic behavior of grain-oriented electrical steel. Journal of Magnetism and Magnetic Materials, 2017, 432, 250-259.	1.0	40
165	Pulsed eddy current thickness measurement using phase features immune to liftoff effect. NDT and E International, 2017, 86, 123-131.	1.7	58
166	Infrared and visible images registration with adaptable local-global feature integration for rail inspection. Infrared Physics and Technology, 2017, 87, 31-39.	1.3	40
167	Motion-induced eddy current thermography for high-speed inspection. AIP Advances, 2017, 7, .	0.6	8
168	Nondestructive Testing for Multi-Layer Metal-Metal Bonded Structure by Using Inductive Lock-In Thermography. IEEE Sensors Journal, 2017, 17, 6716-6723.	2.4	6
169	Ensemble variational Bayes tensor factorization for super resolution of CFRP debond detection. Infrared Physics and Technology, 2017, 85, 335-346.	1.3	18
170	Automatic Relevance Determination of Adaptive Variational Bayes Sparse Decomposition for Micro-Cracks Detection in Thermal Sensing. IEEE Sensors Journal, 2017, 17, 5220-5230.	2.4	9
171	Crack Evaluation Based on Novel Circle-Ferrite Induction Thermography. IEEE Sensors Journal, 2017, 17, 5637-5645.	2.4	15
172	Quantitative Surface Crack Evaluation Based on Eddy Current Pulsed Thermography. IEEE Sensors Journal, 2017, 17, 412-421.	2.4	69
173	Passive RFID sensor systems for crack detection & characterization. NDT and E International, 2017, 86, 89-99.	1.7	52
174	Conductivity Invariance Phenomenon of Eddy Current NDT: Investigation, Verification, and Application. IEEE Transactions on Magnetics, 2017, 53, 1-7.	1.2	17
175	Analysis of domain wall dynamics based on skewness of magnetic Barkhausen noise for applied stress determination. Journal of Magnetism and Magnetic Materials, 2017, 421, 225-229.	1.0	54
176	Quantitative validation of Eddy current stimulated thermal features on surface crack. NDT and E International, 2017, 85, 1-12.	1.7	33
177	Evaluation of the lift-off robustness of eddy current imaging techniques. NDT and E International, 2017, 85, 43-52.	1.7	33
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179	Miniaturization of UHF RFID Tag Antenna Sensors for Corrosion Characterization. IEEE Sensors Journal, 2017, 17, 7908-7916.	2.4	33
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