

Yunze He

List of Publications by Year in descending order

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papers

3,693
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94433

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2063
citing authors

#	ARTICLE	IF	CITATIONS
1	Active 3-D Thermography Based on Feature-Free Registration of Thermogram Sequence and 3-D Shape Via a Single Thermal Camera. IEEE Transactions on Industrial Electronics, 2022, 69, 11774-11784.	7.9	3
2	Analysis of Influence Parameters of Stress Wave at the Turn-Off Moment in IGBT Device Based on Differential AE Sensor. IEEE Sensors Journal, 2022, 22, 2259-2270.	4.7	3
3	Water Target Recognition Method and Application for Unmanned Surface Vessels. IEEE Access, 2022, 10, 421-434.	4.2	10
4	Detection of Debonding Defects Between Radar Absorbing Material and CFRP Substrate by Microwave Thermography. IEEE Sensors Journal, 2022, 22, 4378-4385.	4.7	6
5	Flexible Probe With Array Tunneling Magnetoresistance Sensors for Curved Structure Inspection. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	7
6	Identification of MOSFET Working State Based on the Stress Wave and Deep Learning. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	4.7	4
7	Model-Based POD Evaluation with Parameters from Experiment: A Comparative Study of TMR and Coil Array Probes. Journal of Nondestructive Evaluation, 2022, 41, 1.	2.4	1
8	Hybrid Position Estimation Strategy With a Smooth Transition for IPMSM Sensorless Drives in the Wide Speed Range. IEEE Transactions on Power Electronics, 2022, 37, 7916-7927.	7.9	8
9	Line Scanning Thermography Reconstruction Algorithm for Defects Inspection With Novel Velocity Estimation and Image Registration. IEEE Sensors Journal, 2021, 21, 11555-11568.	4.7	18
10	Optimal design of remote field eddy current testing probe for ferromagnetic pipeline inspection. Measurement: Journal of the International Measurement Confederation, 2021, 168, 108306.	5.0	44
11	An overview of acoustic emission inspection and monitoring technology in the key components of renewable energy systems. Mechanical Systems and Signal Processing, 2021, 148, 107146.	8.0	66
12	Acoustic Emission Detection and Analysis Method for Health Status of Lithium Ion Batteries. Sensors, 2021, 21, 712.	3.8	12
13	A Deconvolutional Reconstruction Method Based on Lucy-Richardson Algorithm for Joint Scanning Laser Thermography. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	8
14	Infrared machine vision and infrared thermography with deep learning: A review. Infrared Physics and Technology, 2021, 116, 103754.	2.9	91
15	Analysis of the Stress-Wave Influence Parameters of Silicon MOSFET Under 300V Drain Source Voltage. IEEE Sensors Journal, 2021, 21, 20107-20118.	4.7	6
16	Flexible Differential Butterfly-Shape Eddy Current Array Sensor for Defect Detection of Screw Thread. IEEE Sensors Journal, 2021, 21, 20764-20777.	4.7	14
17	Joint Scanning Electromagnetic Thermography for Industrial Motor Winding Defect Inspection and Quantitative Evaluation. IEEE Transactions on Industrial Informatics, 2021, 17, 6832-6841.	11.3	6
18	Experimental study and signal analysis of acoustic emission from power MOSFET. Microelectronics Reliability, 2021, 127, 114411.	1.7	3

#	ARTICLE	IF	CITATIONS
19	Joint Scanning Laser Thermography Defect Detection Method for Carbon Fiber Reinforced Polymer. IEEE Sensors Journal, 2020, 20, 328-336.	4.7	41
20	Electromagnetic Induction Heating and Image Fusion of Silicon Photovoltaic Cell Electrothermography and Electroluminescence. IEEE Transactions on Industrial Informatics, 2020, 16, 4413-4422.	11.3	14
21	A reliable initial rotor position estimation method for sensorless control of interior permanent magnet synchronous motors. ISA Transactions, 2020, 97, 116-129.	5.7	8
22	Intelligent Classification of Silicon Photovoltaic Cell Defects Based on Eddy Current Thermography and Convolution Neural Network. IEEE Transactions on Industrial Informatics, 2020, 16, 6242-6251.	11.3	69
23	Flexible Floral Eddy Current Probe for Detecting Flaws in Metal Plate. IEEE Sensors Journal, 2020, 20, 10521-10529.	4.7	18
24	Progress and trends in fault diagnosis for renewable and sustainable energy system based on infrared thermography: A review. Infrared Physics and Technology, 2020, 109, 103383.	2.9	28
25	Terahertz imaging and vibro-thermography for impact response in carbon fiber reinforced plastics. Infrared Physics and Technology, 2020, 109, 103413.	2.9	14
26	Acoustic Emission-Based Experimental Analysis of Mechanical Stress Wave in IGBT Device. IEEE Sensors Journal, 2020, 20, 6064-6074.	4.7	14
27	Eddy Current Pulsed Thermography for Noncontact Nondestructive Inspection of Motor Winding Defects. IEEE Sensors Journal, 2020, 20, 2625-2634.	4.7	9
28	CFRP Impact Damage Inspection Based on Manifold Learning Using Ultrasonic Induced Thermography. IEEE Transactions on Industrial Informatics, 2019, 15, 2648-2659.	11.3	30
29	Efficient numerical simulation of eddy current pulsed thermography NDT signals based on FEM-BEM method and energy equivalent principle. Infrared Physics and Technology, 2019, 101, 138-145.	2.9	10
30	Exposed Corrosion Progression Characterisation Using Pulsed Eddy Current Sensing and Laser Profilometry. , 2019, , .		1
31	CFRP barely visible impact damage inspection based on an ultrasound wave distortion indicator. Composites Part B: Engineering, 2019, 168, 152-158.	12.0	34
32	Phase-Locked Restored Pseudo Heat Flux Thermography for Detecting Delamination Inside Carbon Fiber Reinforced Composites. IEEE Transactions on Industrial Informatics, 2019, 15, 2938-2946.	11.3	17
33	Near infrared nighttime road pedestrians recognition based on convolutional neural network. Infrared Physics and Technology, 2019, 97, 25-32.	2.9	37
34	Noncontact Electromagnetic Induction Excited Infrared Thermography for Photovoltaic Cells and Modules Inspection. IEEE Transactions on Industrial Informatics, 2018, 14, 5585-5593.	11.3	45
35	Through coating imaging and nondestructive visualization evaluation of early marine corrosion using electromagnetic induction thermography. Ocean Engineering, 2018, 147, 277-288.	4.3	32
36	Shape Mapping Detection of Electric Vehicle Alloy Defects Based on Pulsed Eddy Current Rectangular Sensors. Applied Sciences (Switzerland), 2018, 8, 2066.	2.5	1

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37	Real-Time Voltage Flicker Tracking Method Based on Improved Teager Energy Operator and Fourier Transform. <i>Electric Power Components and Systems</i> , 2018, 46, 1198-1209.	1.8	2
38	Induction Infrared Thermography and Thermal-Wave-Radar Analysis for Imaging Inspection and Diagnosis of Blade Composites. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 5637-5647.	11.3	69
39	Shared Excitation Based Nonlinear Ultrasound and Vibrothermography Testing for CFRP Barely Visible Impact Damage Inspection. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 5575-5584.	11.3	68
40	Dynamic Scanning Electromagnetic Infrared Thermographic Analysis Based on Blind Source Separation for Industrial Metallic Damage Evaluation. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 5610-5619.	11.3	39
41	Pulsed Eddy Current Nondestructive Testing for Defect Evaluation and Imaging of Automotive Lightweight Alloy Materials. <i>Journal of Sensors</i> , 2018, 2018, 1-11.	1.1	7
42	CFRP Barely Visible Impact Damage Inspection Based on Nonlinear Ultrasound Signal Sparse Reconstruction. <i>IEEE Sensors Journal</i> , 2018, 18, 6303-6310.	4.7	8
43	Influence of key factors on Eddy current testing sensitivity and monotonicity on subsurface depth for ferromagnetic and non-ferromagnetic materials. <i>Sensors and Actuators A: Physical</i> , 2018, 278, 98-110.	4.1	10
44	Multi-resonant piezoelectric shunting induced by digital controllers for subwavelength elastic wave attenuation in smart metamaterial. <i>Smart Materials and Structures</i> , 2017, 26, 025031.	3.5	39
45	Stress detection and measurement in ferromagnetic metals using pulse electromagnetic method with U-shaped sensor. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017, 105, 136-145.	5.0	23
46	Nondestructive inspection, testing and evaluation for Si-based, thin film and multi-junction solar cells: An overview. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 78, 1117-1151.	16.4	65
47	Magnetic field shielding technique for pulsed remote field eddy current inspection of planar conductors. <i>NDT and E International</i> , 2017, 90, 48-54.	3.7	13
48	Overview of condition monitoring and operation control of electric power conversion systems in direct-drive wind turbines under faults. <i>Frontiers of Mechanical Engineering</i> , 2017, 12, 281-302.	4.3	15
49	Volume or inside heating thermography using electromagnetic excitation for advanced composite materials. <i>International Journal of Thermal Sciences</i> , 2017, 111, 41-49.	4.9	64
50	A Review of Microwave Thermography Nondestructive Testing and Evaluation. <i>Sensors</i> , 2017, 17, 1123.	3.8	56
51	Detection Mechanism of Parallel Defect using Scanning Inductive Thermography. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 207, 012090.	0.6	1
52	Characterisation of Steel Corrosion Using High Frequency RFID. , 2017, , .		2
53	Eddy Current Pulsed Thermography with Different Excitation Configurations for Metallic Material and Defect Characterization. <i>Sensors</i> , 2016, 16, 843.	3.8	63
54	Improvement of Source Number Estimation Method for Single Channel Signal. <i>PLoS ONE</i> , 2016, 11, e0164654.	2.5	6

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55	Progress and trends in nondestructive testing and evaluation for wind turbine composite blade. Renewable and Sustainable Energy Reviews, 2016, 60, 1225-1250.	16.4	126
56	Multidimensional Tensor-Based Inductive Thermography With Multiple Physical Fields for Offshore Wind Turbine Gear Inspection. IEEE Transactions on Industrial Electronics, 2016, 63, 6305-6315.	7.9	96
57	Influence of metallic shields on pulsed eddy current sensor for ferromagnetic materials defect detection. Sensors and Actuators A: Physical, 2016, 248, 162-172.	4.1	28
58	Identification and characterisation of steel corrosion using passive high frequency RFID sensors. Measurement: Journal of the International Measurement Confederation, 2016, 92, 421-427.	5.0	47
59	Evaluation of Atmospheric Corrosion on Coated Steel Using -Band Sweep Frequency Microwave Imaging. IEEE Sensors Journal, 2016, 16, 3025-3033.	4.7	24
60	Polymer-matrix composites carbon fibre characterisation and damage inspection using selectively heating thermography (SeHT) through electromagnetic induction. Composite Structures, 2016, 140, 590-601.	5.8	30
61	Optically and non-optically excited thermography for composites: A review. Infrared Physics and Technology, 2016, 75, 26-50.	2.9	211
62	Unsupervised Sparse Pattern Diagnostic of Defects With Inductive Thermography Imaging System. IEEE Transactions on Industrial Informatics, 2016, 12, 371-383.	11.3	87
63	An investigation and review into microwave thermography for NDT and SHM. , 2015, , .		6
64	An investigation into atmospheric corrosion detection under paint with K-band microwave NDT. , 2015, , .		2
65	Eddy Current Volume Heating Thermography and Phase Analysis for Imaging Characterization of Interface Delamination in CFRP. IEEE Transactions on Industrial Informatics, 2015, 11, 1287-1297.	11.3	70
66	Lateral heat conduction based eddy current thermography for detection of parallel cracks and rail tread oblique cracks. Measurement: Journal of the International Measurement Confederation, 2015, 66, 54-61.	5.0	67
67	Eddy current pulsed phase thermography considering volumetric induction heating for delamination evaluation in carbon fiber reinforced polymers. Applied Physics Letters, 2015, 106, 234103.	3.3	39
68	Pulsed inductive thermal wave radar (PI-TWR) using cross correlation matched filtering in eddy current thermography. Infrared Physics and Technology, 2015, 71, 469-474.	2.9	26
69	The influence of MEMS on electromagnetic NDT. , 2014, , .		5
70	Ultrasonic array time-reversal based super resolution imaging. , 2014, , .		0
71	Inductive pulsed phase thermography for reducing or enlarging the effect of surface emissivity variation. Applied Physics Letters, 2014, 105, 184103.	3.3	25
72	An investigation into eddy current pulsed thermography for detection of corrosion blister. Corrosion Science, 2014, 78, 1-6.	6.6	85

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73	Impact evaluation in carbon fiber reinforced plastic (CFRP) laminates using eddy current pulsed thermography. <i>Composite Structures</i> , 2014, 109, 1-7.	5.8	114
74	Logarithmic analysis of eddy current thermography based on longitudinal heat conduction for subsurface defect evaluation. <i>Infrared Physics and Technology</i> , 2014, 67, 467-472.	2.9	13
75	Non-destructive testing of low-energy impact in CFRP laminates and interior defects in honeycomb sandwich using scanning pulsed eddy current. <i>Composites Part B: Engineering</i> , 2014, 59, 196-203.	12.0	113
76	Support vector machine and optimised feature extraction in integrated eddy current instrument. <i>Measurement: Journal of the International Measurement Confederation</i> , 2013, 46, 764-774.	5.0	46
77	PEC defect automated classification in aircraft multi-ply structures with interlayer gaps and lift-offs. <i>NDT and E International</i> , 2013, 53, 39-46.	3.7	80
78	Research on spectral response of pulsed eddy current and NDE applications. <i>Sensors and Actuators A: Physical</i> , 2013, 189, 313-320.	4.1	59
79	Eddy current pulsed phase thermography for subsurface defect quantitatively evaluation. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	37
80	Eddy current step heating thermography for quantitatively evaluation. <i>Applied Physics Letters</i> , 2013, 103, 194101.	3.3	27
81	Eddy current pulsed phase thermography and feature extraction. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	57
82	PEC Frequency Band Selection for Locating Defects in Two-Layer Aircraft Structures With Air Gap Variations. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2013, 62, 2849-2856.	4.7	38
83	Defect characterisation based on heat diffusion using induction thermography testing. <i>Review of Scientific Instruments</i> , 2012, 83, 104702.	1.3	58
84	Steel Corrosion Characterization Using Pulsed Eddy Current Systems. <i>IEEE Sensors Journal</i> , 2012, 12, 2113-2120.	4.7	152
85	Defect characterisation using pulsed eddy current thermography under transmission mode and NDT applications. <i>NDT and E International</i> , 2012, 52, 28-36.	3.7	99
86	Pulsed eddy current thermography for corrosion characterisation. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2012, 39, 269-276.	0.6	15
87	Corrosion characterisation using pulsed eddy current sensor systems. , 2011, , .		2
88	Defect classification in two-layer complex structures based on spectrum analysis of pulsed eddy current. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2011, 53, 146-151.	0.6	3
89	Reduction of Lift-Off Effects in Pulsed Eddy Current for Defect Classification. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 4753-4760.	2.1	70
90	Pulsed eddy current imaging and frequency spectrum analysis for hidden defect nondestructive testing and evaluation. <i>NDT and E International</i> , 2011, 44, 344-352.	3.7	108

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91	Pulsed eddy current systems for defect and geometrical profile measurement. , 2011, , .		0
92	Defect characterisation based on pulsed eddy current imaging technique. Sensors and Actuators A: Physical, 2010, 164, 1-7.	4.1	48
93	Pulsed eddy current technique for defect detection in aircraft riveted structures. NDT and E International, 2010, 43, 176-181.	3.7	142
94	Defect edge identification with rectangular pulsed eddy current sensor based on transient response signals. NDT and E International, 2010, 43, 409-415.	3.7	37
95	Defect classification based on rectangular pulsed eddy current sensor in different directions. Sensors and Actuators A: Physical, 2010, 157, 26-31.	4.1	87
96	Simulation Analysis of Multi-Frequency Eddy Current Sensor Impedance Property. , 2009, , .		0
97	Defect identification and evaluation based on three-dimensional magnetic field measurement of pulsed eddy current. Insight: Non-Destructive Testing and Condition Monitoring, 2009, 51, 310-314.	0.6	30