Song Ling Huang

List of Publications by Year
in descending order

182 papers	1,607 citations	331670 21 h-index	434195 31 g-index
185 all docs	185 docs citations	185 times ranked	999 citing authors

#	Article	IF	Citations
1	Study on the lift-off effect of EMAT. Sensors and Actuators A: Physical, 2009, 153, 218-221.	4.1	62
2	A New Omni-Directional EMAT for Ultrasonic Lamb Wave Tomography Imaging of Metallic Plate Defects. Sensors, 2014, 14, 3458-3476.	3.8	59
3	Three‐dimensional defect inversion from magnetic flux leakage signals using iterative neural network. IET Science, Measurement and Technology, 2015, 9, 418-426.	1.6	49
4	Laser based measurement for the monitoring of shaft misalignment. Measurement: Journal of the International Measurement Confederation, 2016, 87, 104-116.	5.0	40
5	An Interharmonic Phasor and Frequency Estimator for Subsynchronous Oscillation Identification and Monitoring. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1714-1723.	4.7	40
6	Improvement of unidirectional focusing periodic permanent magnet shear-horizontal wave electromagnetic acoustic transducer by oblique bias magnetic field. Sensors and Actuators A: Physical, 2019, 290, 36-47.	4.1	38
7	Magnetostriction-Based Omni-Directional Guided Wave Transducer for High-Accuracy Tomography of Steel Plate Defects. IEEE Sensors Journal, 2015, 15, 6549-6558.	4.7	37
8	Multiphysics Modeling of a Lorentz Force-Based Meander Coil Electromagnetic Acoustic Transducer via Steady-State and Transient Analyses. IEEE Sensors Journal, 2016, 16, 6641-6651.	4.7	36
9	An Opening Profile Recognition Method for Magnetic Flux Leakage Signals of Defect. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 2229-2236.	4.7	36
10	Development of a Physics-Informed Doubly Fed Cross-Residual Deep Neural Network for High-Precision Magnetic Flux Leakage Defect Size Estimation. IEEE Transactions on Industrial Informatics, 2022, 18, 1629-1640.	11.3	36
11	Harmonic Phasor Estimator for P-Class Phasor Measurement Units. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1556-1565.	4.7	35
12	3D modeling of circumferential SH guided waves in pipeline for axial cracking detection in ILI tools. Ultrasonics, 2015, 56, 325-331.	3.9	34
13	New Measurement Algorithm for Supraharmonics Based on Multiple Measurement Vectors Model and Orthogonal Matching Pursuit. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1671-1679.	4.7	34
14	Compressed Sensing Method for Health Monitoring of Pipelines Based on Guided Wave Inspection. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 4722-4731.	4.7	32
15	Simulation of Lamb wave's interactions with transverse internal defects in an elastic plate. Ultrasonics, 2011, 51, 432-440.	3.9	29
16	Dynamic Harmonic Synchrophasor Estimator Based on Sinc Interpolation Functions. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3054-3065.	4.7	29
17	Microcrack Defect Quantification Using a Focusing High-Order SH Guided Wave EMAT: The Physics-Informed Deep Neural Network GuwNet. IEEE Transactions on Industrial Informatics, 2022, 18, 3235-3247.	11.3	27
18	Mode identification of broadband Lamb wave signal with squeezed wavelet transform. Applied Acoustics, 2017, 125, 91-101.	3.3	24

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19	Point-Focusing of Shear-Horizontal Wave Using Fan-Shaped Periodic Permanent Magnet Focusing Coils EMAT for Plate Inspection. IEEE Sensors Journal, 2019, 19, 4393-4404.	4.7	24
20	Switch Status Identification in Distribution Networks Using Harmonic Synchrophasor Measurements. IEEE Transactions on Smart Grid, 2021, 12, 2413-2424.	9.0	24
21	SSWT and VMD Linked Mode Identification and Time-of-Flight Extraction of Denoised SH Guided Waves. IEEE Sensors Journal, 2021, 21, 14709-14717.	4.7	23
22	A Two-Stage Wavelet Decomposition Method for Instantaneous Power Quality Indices Estimation Considering Interharmonics and Transient Disturbances. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13.	4.7	22
23	Multi-Mode Electromagnetic Ultrasonic Lamb Wave Tomography Imaging for Variable-Depth Defects in Metal Plates. Sensors, 2016, 16, 628.	3.8	21
24	Unidirectional focusing of horizontally polarized shear elastic waves electromagnetic acoustic transducers for plate inspection. Journal of Applied Physics, 2019, 125, 164504.	2.5	21
25	Analytical modelling and calculation of pulsed magnetic field and input impedance for EMATs with planar spiral coils. NDT and E International, 2011, 44, 274-280.	3.7	20
26	A new differential eddy current testing sensor used for detecting crack extension direction. NDT and E International, 2011, 44, 339-343.	3.7	20
27	A multi-objective structural optimization of an omnidirectional electromagnetic acoustic transducer. Ultrasonics, 2017, 81, 23-31.	3.9	18
28	New Technologies in Electromagnetic Non-destructive Testing. Springer Series in Measurement Science and Technology, 2016, , .	0.8	16
29	Study on electromagnetic radiation in crack propagation produced by fracture of rocks. Measurement: Journal of the International Measurement Confederation, 2019, 131, 125-131.	5.0	16
30	A High-Resolution Algorithm for Supraharmonic Analysis Based on Multiple Measurement Vectors and Bayesian Compressive Sensing. Energies, 2019, 12, 2559.	3.1	16
31	Characteristics of Negative Corona Discharge in Air at Various Gaps. IEEE Transactions on Plasma Science, 2019, 47, 736-741.	1.3	16
32	A Simplified Lift-Off Correction for Three Components of the Magnetic Flux Leakage Signal for Defect Detection. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	16
33	A Characteristic Approximation Approach to Defect Opening Profile Recognition in Magnetic Flux Leakage Detection. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	16
34	Infrared thermometer sensor dynamic error compensation using Hammerstein neural network. Sensors and Actuators A: Physical, 2009, 149, 152-158.	4.1	15
35	Iterative Solution of MTL Based on the Spatial Decomposition and the Second-Order FDTD. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	15
36	DIRECTION-CONTROLLABLE ELECTROMAGNETIC ACOUSTIC TRANSDUCER FOR SH WAVES IN STEEL PLATE BASED ON MAGNETOSTRICTION. Progress in Electromagnetics Research M, 2016, 50, 151-160.	0.9	14

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37	Recognition of overlapped Lamb wave detecting signals in aluminum plate by EMD-based STFT flight time extraction method. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 991-998.	0.6	14
38	Point-Focusing Shear-Horizontal Guided Wave EMAT Optimization Method Using Orthogonal Test Theory. IEEE Sensors Journal, 2020, 20, 6295-6304.	4.7	14
39	A Novel Compensation Method of Probe Gesture for Magnetic Flux Leakage Testing. IEEE Sensors Journal, 2021, 21, 10854-10863.	4.7	14
40	A Damage Localization Method With Multimodal Lamb Wave Based on Adaptive Polynomial Chirplet Transform. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8076-8087.	4.7	14
41	Differential eddy current testing sensor composed of double gradient winding coils for crack detection. , 2010, , .		13
42	Three-dimensional defect reconstruction from magnetic flux leakage signals in pipeline inspection based on a dynamic taboo search procedure. Insight: Non-Destructive Testing and Condition Monitoring, 2014, 56, 535-540.	0.6	13
43	Characteristics of T(0, 1) Guided-Wave Point-Focusing Electromagnetic Acoustic Transducer for Pipe Inspection. IEEE Sensors Journal, 2020, 20, 2895-2903.	4.7	13
44	3D focusing acoustic lens optimization method using multi-factor and multi-level orthogonal test designing theory. Applied Acoustics, 2020, 170, 107538.	3.3	13
45	Frequency response of an underwater acoustic focusing composite lens. Applied Acoustics, 2021, 173, 107692.	3.3	13
46	Electromagnetic Ultrasonic Guided Waves. Springer Series in Measurement Science and Technology, 2016, , .	0.8	12
47	Investigating the quality inspection process of offshore wind turbine blades using B-spline surfaces. Measurement: Journal of the International Measurement Confederation, 2018, 115, 162-172.	5.0	12
48	Defect Detection and Identification of Point-Focusing Shear-Horizontal EMAT for Plate Inspection. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	12
49	Harmonic Phasor Estimation Based on Frequency-Domain Sampling Theorem. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	11
50	Stress excited electrical dipole model for electromagnetic emission induced in fractured rock. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 1023-1034.	0.6	10
51	Modeling of an omni-directional electromagnetic acoustic transducer driven by the Lorentz force mechanism. Smart Materials and Structures, 2016, 25, 125029.	3.5	10
52	An Iterative Flux Tracing Method Without Deutsch Assumption for Ion-Flow Field of AC/DC Hybrid Transmission Lines. IEEE Transactions on Magnetics, 2018, 54, 1-4.	2.1	10
53	Development of Frequency-Mixed Point-Focusing Shear Horizontal Guided-Wave EMAT for Defect Inspection Using Deep Neural Network. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-14.	4.7	10
54	Dynamic compensation for an infrared thermometer sensor using least-squares support vector regression (LSSVR) based functional link artificial neural networks (FLANN). Measurement Science and Technology, 2008, 19, 105202.	2.6	9

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55	Equivalent MFL model of pipelines for 3-D defect reconstruction using simulated annealing inversion procedure. International Journal of Applied Electromagnetics and Mechanics, 2015, 47, 551-561.	0.6	9
56	Time-frequency energy density precipitation method for time-of-flight extraction of narrowband Lamb wave detection signals. Review of Scientific Instruments, 2016, 87, 054702.	1.3	9
57	Electromagnetic ultrasonic guided wave long-term monitoring and data difference adaptive extraction method for buried oil-gas pipelines. International Journal of Applied Electromagnetics and Mechanics, 2017, 54, 329-339.	0.6	9
58	Problems in the Classic Frequency Shift Islanding Detection Methods Applied to Energy Storage Converters and a Coping Strategy. IEEE Transactions on Energy Conversion, 2018, 33, 496-505.	5.2	9
59	An Irregular Current Injection Islanding Detection Method Based on an Improved Impedance Measurement Scheme. Energies, 2018, 11, 2474.	3.1	9
60	A lift-off revision method for magnetic flux leakage measurement signal. , 2018, , .		9
61	An element-scaling-revising method (ESRM) for magnetic flux leakage signal analysis. International Journal of Applied Electromagnetics and Mechanics, 2018, 57, 83-92.	0.6	9
62	Analytical model and optimal focal position selection for oblique point-focusing shear horizontal guided wave EMAT. Construction and Building Materials, 2020, 258, 120375.	7.2	9
63	Design of Electromagnetic Acoustic Transducer for Helical Lamb Wave With Concentrated Beam. IEEE Sensors Journal, 2020, 20, 6305-6313.	4.7	9
64	Multihelical Lamb Wave Imaging for Pipe-Like Structures Based on a Probabilistic Reconstruction Approach. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-10.	4.7	9
65	Multi-belts coil longitudinal guided wave magnetostrictive transducer for ferromagnetic pipes testing. Science China Technological Sciences, 2011, 54, 502-508.	4.0	8
66	A New Dual Magnetic Sensor Probe for Lift-off Compensation in Magnetic Flux Leakage Detection. , 2020, , .		8
67	Development of a Helical Lamb Wave Electromagnetic Acoustic Transducer for Pipeline Inspection. IEEE Sensors Journal, 2020, 20, 9715-9723.	4.7	8
68	Orthogonal Optimal Design Method for Point-Focusing EMAT Considering Focal Area Dimensions. Sensors and Actuators A: Physical, 2020, 312, 112109.	4.1	8
69	A denoising algorithm for an electromagnetic acoustic transducer (EMAT) signal by envelope regulation. Measurement Science and Technology, 2010, 21, 085206.	2.6	7
70	Reconstruction of 3-D defect profiles from MFL signals using radial wavelet basis function neural network. International Journal of Applied Electromagnetics and Mechanics, 2014, 45, 465-471.	0.6	7
71	Field representation of a watt balance magnet by partial profile measurements. Metrologia, 2015, 52, 445-453.	1.2	7
72	A Basic Signal Analysis Approach for Magnetic Flux Leakage Response. IEEE Transactions on Magnetics, 2018, 54, 1-6.	2.1	7

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73	Numerical evaluation of focal position selection by line-focusing electromagnetic acoustic transducer with experimental validation. International Journal of Applied Electromagnetics and Mechanics, 2019, 61, 341-355.	0.6	7
74	Characteristic analysis of electromagnetic acoustic transducers for helical shear horizontal wave based on magnetostrictive effect. Review of Scientific Instruments, 2021, 92, 025006.	1.3	7
75	Three‐dimensional magnetic flux leakage signal analysis and imaging method for tank floor defect. Journal of Engineering, 2018, 2018, 1865-1870.	1.1	7
76	High resolution tomography of pipeline using multi-helical Lamb wave based on compressed sensing. Construction and Building Materials, 2022, 317, 125628.	7.2	7
77	Approach to Lamb Wave Lateral Crack Quantification in Elastic Plate Based on Reflection and Transmission Coefficients Surfaces. Research in Nondestructive Evaluation, 2010, 21, 213-223.	1.1	6
78	Compatibility Issues with Irregular Current Injection Islanding Detection Methods and a Solution. Energies, 2019, 12, 1467.	3.1	6
79	Design and characterization of an acoustic composite lens with high-intensity and directionally controllable focusing. Scientific Reports, 2020, 10, 1469.	3.3	6
80	A Solution to the Parameter Selection and Current Static Error Issues With Frequency Shift Islanding Detection Methods. IEEE Transactions on Industrial Electronics, 2021, 68, 1401-1411.	7.9	6
81	A Method Using Magnetic Eddy Current Testing for Distinguishing ID and OD Defects of Pipelines under Saturation Magnetization. Applied Computational Electromagnetics Society Journal, 2020, 35, 1089-1098.	0.4	6
82	Analytical calculation and analysis for meander-coil electromagnetic acoustic transducers. , 2011, , .		5
83	A three-core power cable online monitoring system based on phase current sensing. , 2017, , .		5
84	Four harmonic analysis and energy metering algorithms based on a new cosine window function. Journal of Engineering, 2017, 2017, 2678-2684.	1.1	5
85	Enhanced Interpolated Dynamic DFT Synchrophasor Estimator Considering Second Harmonic Interferences. Sensors, 2018, 18, 2748.	3.8	5
86	A Kriging surrogate model of an electromagnetic acoustic transducer (EMAT) generating omnidirectional Lamb waves. International Journal of Applied Electromagnetics and Mechanics, 2018, 57, 1-18.	0.6	5
87	Characterizing excitability of Lamb waves generated by electromagnetic acoustic transducers with coupled frequency domain models. Ultrasonics, 2019, 93, 71-80.	3.9	5
88	NDE of composites delamination by infrared thermography. , 2003, , .		4
89	The effect of the defect location on the finite element modelling of defect MFL fields. Insight: Non-Destructive Testing and Condition Monitoring, 2006, 48, 402-405.	0.6	4
90	Automatic Inspection Method of Steady Arm Slope Based on Computer Vision. , 2010, , .		4

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91	A New Measurement Method for Supraharmonics in 2–150 kHz. , 2018, , .		4
92	Interharmonic and Fundamental Phasor Estimator for Smart Grid Applications. , 2018, , .		4
93	Real-Time Monitoring of Wind Turbine Blade Alignment Using Laser Displacement and Strain Measurement. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 2019, 2, .	0.9	4
94	Optimal Number of Control Points for Fitting B-Splines in Wind Turbine Blade Measurement. International Journal of Precision Engineering and Manufacturing, 2019, 20, 1507-1517.	2.2	4
95	Synchronization Issues with Irregular Current Injection Islanding Detection Methods in Multi-DG Operation. , 2019, , .		4
96	A 3-D Pseudo Magnetic Flux Leakage (PMFL) Signal Processing Technique for Defect Imaging. , 2019, , .		4
97	Power measurement accuracy analysis in the presence of interharmonics. Measurement: Journal of the International Measurement Confederation, 2020, 154, 107484.	5.0	4
98	Effective Focal Area Dimension Optimization of Shear Horizontal Point-Focusing EMAT Using Orthogonal Test Method. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-8.	4.7	4
99	Interference mechanism of external current on heavy current transformer. , 2009, , .		3
100	Eccentric bus-bar testing method of the shielding effect of heavy current transformer with shielding coils. , 2010, , .		3
101	New Testing Method of the Shielding Effect of Heavy Current Transformer With Shielding Coils. IEEE Transactions on Instrumentation and Measurement, 2011, 60, 839-845.	4.7	3
102	Design of equivalent coils for anti- interference testing of heavy current transformers. International Journal of Applied Electromagnetics and Mechanics, 2018, 56, 211-223.	0.6	3
103	Improved interpolated dynamic DFT synchrophasor estimator considering second harmonic interferences. , 2018, , .		3
104	Multifrequency Identification and Exploitation in Lamb Wave Inspection. IEEE Access, 2019, 7, 150435-150443.	4.2	3
105	An Element-Combination Method for Arbitrary Defect Reconstruction from MFL Signals. , 2020, , .		3
106	Nonlinear Responds of Lamb Waves in Plate Structure with Micro-Crack Using Frequency-Mixing Technique. Journal of Physics: Conference Series, 2021, 1877, 012014.	0.4	3
107	A 3-D Imaging Method for Local Shallow Defects on the Surface of Ferromagnetic Materials. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	3
108	A SVD-Based Synchrophasor Estimator for P-Class PMUs With Improved Immune From Interharmonic Tones. IEEE Access, 2021, 9, 151567-151577.	4.2	3

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109	An adaptive compression algorithm for pipeline EMAT inspection data. International Journal of Applied Electromagnetics and Mechanics, 2010, 33, 1095-1100.	0.6	2
110	A Background Noise Reduction and Peak Detection Method for Surface Enhanced Raman Scattering Signals. Journal of Optical Communications, 2010, 31, .	4.7	2
111	Data collection algorithm for clustered large-scale wireless sensor networks using virtual nodes. , 2010, , .		2
112	New improved FLANN approach for dynamic modelling of sensors. International Journal of Computer Applications in Technology, 2011, 41, 4.	0.5	2
113	Analysis on the voltage dependent capacitance variation of high voltage compressed gas standard capacitors. , 2012, , .		2
114	A large ratio data compression method for pipeline inspection based on EMAT-generated guided wave. International Journal of Applied Electromagnetics and Mechanics, 2014, 45, 511-517.	0.6	2
115	Fast Quasi-Synchronous Harmonic Algorithm based on weight window function â€" Mixed Radix FFT. , 2016, , .		2
116	Calculation of Lorentz force in planar EMAT for thickness measurement of steel plate. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 1257-1269.	0.9	2
117	Modelling and Optimization of Four-Segment Shielding Coils of Current Transformers. Sensors, 2017, 17, 1218.	3.8	2
118	The Screening Method of the Internal Defects in Wood Members of the Ancient Architectures by Hammering Sound. BioResources, 2017, 12, .	1.0	2
119	Development of a new EMAT for multi-helical SH guided waves based on magnetostrictive effect. , 2018, , .		2
120	Research on the Architecture and its Implementation for Instrumentation and Measurement Cloud. IEEE Transactions on Services Computing, 2020, 13, 944-957.	4.6	2
121	A Simplified Calculation Model of MFL Signal of Defect Based on Lift-off Value. , 2020, , .		2
122	From μ_0 to e: A Survey of Major Impacts for Electrical Measurements in Recent SI Revision. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5956-5965.	4.7	2
123	A Characteristic Approximation Approach to Defect Edge Detection in Magnetic Flux Leakage Testing. , 2020, , .		2
124	Frequency-Domain Sampling Theorem-based Harmonic Phasor Estimator. , 2020, , .		2
125	Oblique Point-Focusing Shear-Horizontal Guided-Wave Electromagnetic Acoustic Transducer With Variable PPM Spacing. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 1691-1700.	3.0	2
126	EMAT Design for Defect Inspection in Pipe-like Structure Using Helical Lamb Wave. , 2020, , .		2

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127	Simulation of Three Constitutive Behaviors Based on Nonlinear Ultrasound. Applied Sciences (Switzerland), 2020, 10, 1982.	2.5	2
128	High-Precision and Four-Dimensional Tracking System with Dual Receivers of Pipeline Inspection Gauge. Applied Sciences (Switzerland), 2021, 11, 3366.	2.5	2
129	Profile imaging of actual defects in steel plate based on electromagnetic ultrasonic SH guided wave scattering. Insight: Non-Destructive Testing and Condition Monitoring, 2017, 59, 383-388.	0.6	2
130	Accelerated optimizations of an electromagnetic acoustic transducer with artificial neural networks as metamodels. Journal of Sensors and Sensor Systems, 2017, 6, 269-284.	0.9	2
131	Slot Length Characterizing By Magnetic Flux Leakage Evaluation. Materials Technology, 2006, 21, 233-234.	3.0	1
132	Analysis on eccentric bus-bar testing method of heavy current transformer. , 2012, , .		1
133	Reconstruction of arbitrary defect profiles from three-axial MFL signals based on metaheuristic optimization method. International Journal of Applied Electromagnetics and Mechanics, 2015, 49, 223-237.	0.6	1
134	A discussion ofBlconservation on a two dimensional magnetic field plane in watt balances. Measurement Science and Technology, 2016, 27, 051001.	2.6	1
135	Analytical Method of EMAT Based on Magnetostrictive Mechanism. Springer Series in Measurement Science and Technology, 2016, , 103-151.	0.8	1
136	Magnetic Flux Leakage Testing. Springer Series in Measurement Science and Technology, 2016, , 185-222.	0.8	1
137	Electromagnetic Acoustic Transducer. Springer Series in Measurement Science and Technology, 2016, , 1-42.	0.8	1
138	A Defect Opening Profile Estimation Method Based on the Right-Angle Characteristic of Vertical Component of MFL Signal. , 2018, , .		1
139	Time of Flight Extraction of Dispersive Lamb Wave by Ridge Analysis. , 2018, , .		1
140	A Method of Distinguishing the ID and OD Defect of the Pipe under Saturation Magnetization. , 2018, , .		1
141	Constrained optimization of a meander line EMAT generating S0 mode Lamb waves with genetic algorithms. International Journal of Applied Electromagnetics and Mechanics, 2018, 58, 411-429.	0.6	1
142	Multimodal Lamb Wave Identification Using Combination of Instantaneous Frequency with EMD. , 2019, , .		1
143	Sparse Reconstruction Based Time-frequency Representation for Time-of-flight Extraction of Undersampled Lamb Wave Signal. , 2020, , .		1
144	Identifying Surface Defect Opening Profiles Based on the Uniform Magnetic Field Distortion. , 2020, , .		1

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145	Defect Detection and Identification of Point-Focusing Shear-Horizontal EMAT for Plate Inspection. , 2020, , .		1
146	Effective Focal Area Dimension Optimization of Shear-Horizontal Point-Focusing EMAT Using Orthogonal Test Method. , 2020, , .		1
147	Measurement of thinning wall for ferromagnetic structures based on the reluctance of the magnetic circuit. , 2020, , .		1
148	An Improved MFL Method Fusing Multi-Space Magnetic Field Information for The Surface Defect Inspecting. , 2021, , .		1
149	Internal and External Defects Discrimination of Pipelines Using Composite Magnetic Flux Leakage Detection. , 2021, , .		1
150	Bayesian compressive sensing for recovering the time-frequency representation of undersampled Lamb wave signals. Applied Acoustics, 2022, 187, 108480.	3.3	1
151	Mode Identification of Denoised SH Guided Waves Using Variational Mode Decomposition Method. , 2020, , .		1
152	Health Monitoring of Plate Structures Based on Tomography With Combination of Guided Wave Transmission and Reflection. IEEE Sensors Journal, 2022, 22, 10850-10860.	4.7	1
153	A Dynamic Wideband Multi-Component Phasor Estimator Using Matrix Theory. , 2022, , .		1
154	Alternating winding magnetostrictive electromagnetic acoustic transducer for pipe torsional guided wave generation. , 2010, , .		0
155	Design of Easier Controllable High Efficiency Electrodeless Ballast. Applied Mechanics and Materials, 2011, 48-49, 382-386.	0.2	0
156	Structural Optimization Design of Heavy Protective Current Transformers. , 2012, , .		0
157	Soft-switching analysis of a resonant capacitor current feedback self-oscillating inverter. , 2012, , .		0
158	Nonlinear analysis of high-frequency self-oscillating resonant inverters. , 2013, , .		0
159	The Development of Rock Failure Electromagnetic Emission Monitoring System. Applied Mechanics and Materials, 0, 330, 401-406.	0.2	0
160	A Proposed Architecture for Instrumentation Cloud. Applied Mechanics and Materials, 0, 665, 661-667.	0.2	0
161	Finite Element Simulation of Ultrasonic Guided Waves. Springer Series in Measurement Science and Technology, 2016, , 237-270.	0.8	0
162	Accurate and fast synchrophasor estimator for distribution networks. Measurement Science and Technology, 2019, 30, 125004.	2.6	0

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163	A Method for Identifying Inclined Defects by Using Magnetic Flux Leakage Spectral Envelope Detection. , 2019, , .		0
164	Characteristics of the multi-transducer point-focusing fan-shaped PPM Shear-Horizontal wave EMATs for plate inspection. , 2019, , .		0
165	Focusing Dimension Optimization of Shear Vertical Wave EMATs Using Orthogonal Test Method. , 2019, , .		0
166	Dynamic Synchrophasor Estimation Algorithm for P-class Phasor Measurement Units. , 2019, , .		0
167	Theory and Methodology of Electromagnetic Ultrasonic Guided Wave Imaging. , 2020, , .		0
168	Directivity and Controllability of Electromagnetic Ultrasonic Transducer. , 2020, , 31-151.		0
169	An Instantaneous Power Quantities Measurement Method Based on Wavelet Packet Transform. , 2020, , .		0
170	Numerical modelling of unilateral point-focusing electromagnetic acoustic transducer with experimental validation. International Journal of Applied Electromagnetics and Mechanics, 2020, 62, 645-662.	0.6	0
171	Research on the Characteristics of Graphene-metal Contact. , 2020, , .		0
172	Meanderline Coil Arrangement of Ultrasonic Wave Line-Focusing Electromagnetic Acoustic Transducers. , 2020, , .		0
173	High Precision Identification Method of Fan Main Shaft Defects Based on Rotating Magnetic Field Detection. , 2021, , .		0
174	Ultrasonic unilateral double-position excitation lamb wave defect detection and quantification method for ground electrode of transmission tower. International Journal of Applied Electromagnetics and Mechanics, 2021, , 1-15.	0.6	0
175	Quantification of Defects with Point-Focusing Shear Horizontal Guided Wave EMAT Using Deep Residual Network. , 2021, , .		0
176	Analytical Method of EMAT Based on Lorentz Force Mechanism. Springer Series in Measurement Science and Technology, 2016, , 43-102.	0.8	0
177	Guided Wave Electromagnetic Ultrasonic Tomography. , 2020, , 195-234.		0
178	Time-of-Flight Extraction Method for the Electromagnetic Ultrasonic Guided Wave Detection Signal. , 2020, , 153-193.		0
179	Data Recovery Method for MLF Signals Based on Sinc Fucntion for Oil & Gas Pipeline. , 2020, , .		0
180	Enhancement of Omni-Directional EMAT Signal Using a Optimized Magnetic Circuit Design. , 2020, , .		0

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181	Characterization of Clustered Cracks at Weld Root Based on Uniform-Magnetic-Field Distortion Measurement. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-10.	4.7	0
182	An Approximate Analytical Model of Surface Cracks in AC Field Measurement Technique. IEEE Transactions on Magnetics, 2022, 58, 1-9.	2.1	0