Shejuan Xie

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Quantitative non-destructive evaluation of wall thinning defect in double-layer pipe of nuclear power plants using pulsed ECT method. NDT and E International, 2015, 75, 87-95.	3.7	69
2	Super tough magnetic hydrogels for remotely triggered shape morphing. Journal of Materials Chemistry B, 2018, 6, 2713-2722.	5.8	68
3	Magnetic double-network hydrogels for tissue hyperthermia and drug release. Journal of Materials Chemistry B, 2019, 7, 1311-1321.	5.8	67
4	Efficient Numerical Solver for Simulation of Pulsed Eddy-Current Testing Signals. IEEE Transactions on Magnetics, 2011, 47, 4582-4591.	2.1	59
5	Development of a very fast simulator for pulsed eddy current testing signals of local wall thinning. NDT and E International, 2012, 51, 45-50.	3.7	45
6	A novel magnetic force transmission eddy current array probe and its application for nondestructive testing of defects in pipeline structures. Sensors and Actuators A: Physical, 2020, 309, 112030.	4.1	43
7	Features extraction and discussion in a novel frequency-band-selecting pulsed eddy current testing method for the detection of a certain depth range of defects. NDT and E International, 2020, 111, 102211.	3.7	41
8	A hybrid nondestructive testing method of pulsed eddy current testing and electromagnetic acoustic transducer techniques for simultaneous surface and volumetric defects inspection. NDT and E International, 2017, 86, 153-163.	3.7	40
9	Sizing of Wall Thinning Defects Using Pulsed Eddy Current <newline></newline> Testing Signals Based on a Hybrid Inverse Analysis Method. IEEE Transactions on Magnetics, 2013, 49, 1653-1656.	2.1	35
10	Quantitative Inversion of Stress and Crack in Ferromagnetic Materials Based on Metal Magnetic Memory Method. IEEE Transactions on Magnetics, 2018, 54, 1-11.	2.1	27
11	An efficient electromagnetic and thermal modelling of eddy current pulsed thermography for quantitative evaluation of blade fatigue cracks in heavy-duty gas turbines. Mechanical Systems and Signal Processing, 2020, 142, 106781.	8.0	23
12	Quantitative mapping of depth profile of fatigue cracks using eddy current pulsed thermography assisted by PCA and 2D wavelet transformation. Mechanical Systems and Signal Processing, 2022, 175, 109139.	8.0	18
13	Assessment of local conductivity distribution in stress corrosion crack region using direct current potential drop method. Corrosion Science, 2017, 123, 197-208.	6.6	17
14	Influence of Plastic Deformation and Fatigue Damage on Electromagnetic Properties of 304 Austenitic Stainless Steel. IEEE Transactions on Magnetics, 2018, 54, 1-10.	2.1	16
15	Quantitative Non-Destructive Testing of Metallic Foam Based on Direct Current Potential Drop Method. IEEE Transactions on Magnetics, 2012, 48, 375-378.	2.1	15
16	A novel frequency-band-selecting pulsed eddy current testing method for the detection of a certain depth range of defects. NDT and E International, 2019, 107, 102154.	3.7	15
17	IRT-GAN: A generative adversarial network with a multi-headed fusion strategy for automated defect detection in composites using infrared thermography. Composite Structures, 2022, 290, 115543.	5.8	15
18	Inversion Technique for Quantitative Infrared Thermography Evaluation of Delamination Defects in Multilayered Structures. IEEE Transactions on Industrial Informatics, 2020, 16, 4592-4602.	11.3	14

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19	A new array eddy current testing probe for inspection of small-diameter tubes in Tokamak fusion devices. Fusion Engineering and Design, 2020, 157, 111627.	1.9	14
20	A novel circumferential eccentric eddy current probe and its application for defect detection of small-diameter tubes. Sensors and Actuators A: Physical, 2021, 331, 113023.	4.1	12
21	Development of a Fast Numerical Simulator for Infrared Thermography Testing Signals of Delamination Defect in a Multilayered Plate. IEEE Transactions on Industrial Informatics, 2018, 14, 5544-5552.	11.3	11
22	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
23	A numerical simulation method of nonlinear magnetic flux leakage testing signals for nondestructive evaluation of plastic deformation in a ferromagnetic material. Mechanical Systems and Signal Processing, 2021, 155, 107670.	8.0	10
24	Numerical simulation method for IR thermography NDE of delamination defect in multilayered plate. International Journal of Applied Electromagnetics and Mechanics, 2016, 52, 381-389.	0.6	9
25	Reconstruction of cracks in a carbon fiber-reinforced polymer laminate plate from signals of eddy current testing. Journal of Composite Materials, 2020, 54, 3527-3536.	2.4	9
26	A Fast Forward Simulation Scheme for Eddy Current Testing of Crack in a Structure of Carbon Fiber Reinforced Polymer Laminate. IEEE Access, 2019, 7, 152278-152288.	4.2	8
27	Quantitative evaluation of electrical conductivity inside stress corrosion crack with electromagnetic NDE methods. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190589.	3.4	8
28	On the deformation and failure mechanisms of hydrogen alloyed metallic glasses. Journal of Applied Physics, 2022, 131, .	2.5	7
29	Efficient numerical simulation of DC potential drop signals for application to NDT of metallic foam. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 33, 147-156.	0.9	6
30	An Efficient Numerical Scheme for Sizing of Cavity Defect in Metallic Foam From Signals of DC Potential Drop Method. IEEE Transactions on Magnetics, 2014, 50, 125-128.	2.1	6
31	An FEM-BEM method for halo current problem and its application to HL-2M Tokamak. Fusion Engineering and Design, 2018, 136, 667-673.	1.9	6
32	Nondestructive evaluation of plastic damage in a RAFM steel considering the influence of loading history. Journal of Nuclear Materials, 2019, 523, 248-259.	2.7	6
33	Joint effect of residual stress and plastic deformation on pulsed eddy current response signals in 304 austenitic stainless steel. International Journal of Applied Electromagnetics and Mechanics, 2020, 63, 19-30.	0.6	6
34	Sizing of metallic foam bubble flaws using direct current potential drop signals with the help of the neural network method. International Journal of Applied Electromagnetics and Mechanics, 2011, 36, 339-353.	0.6	5
35	Reconstruction of stress corrosion cracks using signals of pulsed eddy current testing. Nondestructive Testing and Evaluation, 2013, 28, 145-154.	2.1	5
36	Detectability evaluation of eddy current testing probes for inspection of defects in carbon fiber reinforced polymer laminates. International Journal of Applied Electromagnetics and Mechanics, 2017, 55, 185-193.	0.6	5

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37	A numerical study on eddy current signal characteristics of imitative stress corrosion cracks. International Journal of Applied Electromagnetics and Mechanics, 2017, 55, 257-269.	0.6	5
38	Advanced Multi-Media Element for Simulating Distribution of Magnetic Flux Density Influenced by Narrow Crack. IEEE Transactions on Magnetics, 2019, 55, 1-4.	2.1	5
39	Numerical simulation methods for motion-induced eddy current testing signals based on Ar formulation and edge finite elements. NDT and E International, 2022, 129, 102651.	3.7	4
40	Quantitative sizing of compound location defects based on PECT-EMAT hybrid testing methods. Mechanical Systems and Signal Processing, 2022, 178, 109267.	8.0	4
41	Simultaneous evaluation of residual stress and plastic deformation in ferromagnetic steel by using an integrated NDE method. International Journal of Applied Electromagnetics and Mechanics, 2017, 55, 77-85.	0.6	3
42	Evaluation of wall thinning defect in magnetic material based on PECT method under magnetic saturation. International Journal of Applied Electromagnetics and Mechanics, 2017, 55, 49-59.	0.6	2
43	A simulation method to evaluate electrical conductivity of closed-cell aluminum foam. International Journal of Applied Electromagnetics and Mechanics, 2018, 58, 289-307.	0.6	2
44	Mechanical Property and Damage Evolution of Polymer-Bonded eXplosive Substitute Under Biaxial Compression. International Journal of Applied Mechanics, 2019, 11, 1950033.	2.2	2
45	Reconstruction of complex shaped crack from ECT signals based on a fast forward solver using an advanced multi-media element. International Journal of Applied Electromagnetics and Mechanics, 2020, 64, 621-629.	0.6	2
46	Numerical methods for the magneto-mechanical coupling analysis of in-vessel components in Tokamak devices. Theoretical and Applied Mechanics Letters, 2019, 9, 173-179.	2.8	1
47	A mechanism study on influence of strong external magnetic field on fracture properties of a ferromagnetic steel. AIP Advances, 2019, 9, 075219.	1.3	1
48	Evaluation of electromagnetic force in tokamak first wall based on magnetic field measurement and inverse analysis. International Journal of Applied Electromagnetics and Mechanics, 2019, 59, 427-437.	0.6	1
49	Nondestructive material reliability evaluation for Cu-alloy of combustion chamber. Journal of Fluid Science and Technology, 2014, 9, JFST0075-JFST0075.	0.6	0
50	A Stable FEM-BEM Hybrid Method for the Numerical Simulation of Magnetomechanical Coupled Problem With Both Inductive and Conductive Current Excitations Aiming to Application to Tokamak In-Vessel Structures. IEEE Transactions on Plasma Science, 2020, 48, 2902-2907.	1.3	0
51	Measurement method for deformation and contact force of the fuel assembly for China fast reactor under thermal gradient. Annals of Nuclear Energy, 2020, 141, 107270.	1.8	Ο