

Karen M Holford

List of Publications by Year in descending order

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85
papers

1,982
citations

304743

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265206

42
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89
all docs

89
docs citations

89
times ranked

1472
citing authors

#	ARTICLE	IF	CITATIONS
1	Damage classification in reinforced concrete beam by acoustic emission signal analysis. <i>Construction and Building Materials</i> , 2013, 45, 78-86.	7.2	206
2	Damage classification in carbon fibre composites using acoustic emission: A comparison of three techniques. <i>Composites Part B: Engineering</i> , 2015, 68, 424-430.	12.0	158
3	Delta T source location for acoustic emission. <i>Mechanical Systems and Signal Processing</i> , 2007, 21, 1512-1520.	8.0	153
4	Damage assessment of corrosion in prestressed concrete by acoustic emission. <i>Construction and Building Materials</i> , 2013, 40, 925-933.	7.2	105
5	Acoustic emission source location in complex structures using full automatic delta T mapping technique. <i>Mechanical Systems and Signal Processing</i> , 2016, 72-73, 513-524.	8.0	101
6	Acoustic emission source location in composite materials using Delta T Mapping. <i>Composites Part A: Applied Science and Manufacturing</i> , 2012, 43, 856-863.	7.6	100
7	A new methodology for automating acoustic emission detection of metallic fatigue fractures in highly demanding aerospace environments: An overview. <i>Progress in Aerospace Sciences</i> , 2017, 90, 1-11.	12.1	72
8	Localisation and identification of fatigue matrix cracking and delamination in a carbon fibre panel by acoustic emission. <i>Composites Part B: Engineering</i> , 2015, 74, 1-12.	12.0	69
9	Acoustic Emission Source Location. <i>Key Engineering Materials</i> , 1999, 167-168, 162-171.	0.4	54
10	Acoustic emission source location on large plate-like structures using a local triangular sensor array. <i>Mechanical Systems and Signal Processing</i> , 2012, 30, 91-102.	8.0	53
11	Automatic Classification of Acoustic Emission Patterns. <i>Strain</i> , 2003, 39, 31-41.	2.4	50
12	Improved acoustic emission source location during fatigue and impact events in metallic and composite structures. <i>Structural Health Monitoring</i> , 2017, 16, 382-399.	7.5	50
13	Visualisation and Dimension Reduction of Acoustic Emission Data for Damage Detection. <i>Journal of Intelligent Material Systems and Structures</i> , 2001, 12, 529-536.	2.5	46
14	Damage Location in Steel Bridges by Acoustic Emission. <i>Journal of Intelligent Material Systems and Structures</i> , 2001, 12, 567-576.	2.5	46
15	Parameter Correction Technique (PCT): A novel method for acoustic emission characterisation in large-scale composites. <i>Composites Part B: Engineering</i> , 2015, 75, 336-344.	12.0	40
16	Towards improved damage location using acoustic emission. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2012, 226, 2141-2153.	2.1	37
17	Acoustic Emissionâ€“Basic Principles and Future Directions. <i>Strain</i> , 2000, 36, 51-54.	2.4	33
18	Classification of acoustic emission data from buckling test of carbon fibre panel using unsupervised clustering techniques. <i>Structural Health Monitoring</i> , 2015, 14, 241-251.	7.5	33

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19	Acoustic emission for monitoring aircraft structures. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2009, 223, 525-532.	1.3	31
20	Energy Harvesting for Aerospace Structural Health Monitoring Systems. Journal of Physics: Conference Series, 2012, 382, 012025.	0.4	29
21	Characterisation of fatigue damage in composites using an Acoustic Emission Parameter Correction Technique. Composites Part B: Engineering, 2018, 151, 237-244.	12.0	29
22	Analysis of rheological properties of bone cements. Journal of Materials Science: Materials in Medicine, 2007, 18, 1407-1412.	3.6	27
23	Modal Analysis of Acoustic Emission Signals from Artificial and Fatigue Crack Sources in Aerospace Grade Steel. Key Engineering Materials, 2005, 293-294, 217-226.	0.4	22
24	Use of Macro Fibre Composite Transducers as Acoustic Emission Sensors. Remote Sensing, 2009, 1, 68-79.	4.0	21
25	Acoustic Emission in Structural Health Monitoring. Key Engineering Materials, 0, 413-414, 15-28.	0.4	21
26	The use of acoustic emission for the early detection of cracking in concrete structures. Magazine of Concrete Research, 2011, 63, 683-688.	2.0	20
27	Quantitative Evaluation of the Relationship between Tensile Crack and Shear Movement in Concrete Beams. Advanced Materials Research, 2012, 626, 355-359.	0.3	20
28	Detecting and identifying artificial acoustic emission signals in an industrial fatigue environment. Measurement Science and Technology, 2009, 20, 045101.	2.6	18
29	Buckling and postbuckling behaviour of Glare laminates containing splices and doublers. Part 1: Instrumented tests. Composite Structures, 2017, 176, 1158-1169.	5.8	18
30	Spatial scanning for anomaly detection in acoustic emission testing of an aerospace structure. Mechanical Systems and Signal Processing, 2011, 25, 2462-2474.	8.0	16
31	Wavelet Signal Processing of Acoustic Emission Data. Key Engineering Materials, 2001, 204-205, 351-358.	0.4	14
32	Acoustic emission testing of bridges. , 2005, , 183-215.		14
33	Characterisation of Damage in Composite Structures using Acoustic Emission. Journal of Physics: Conference Series, 2011, 305, 012086.	0.4	14
34	Optimisation of acoustic emission wavestreaming for structural health monitoring. Structural Health Monitoring, 2020, 19, 2007-2022.	7.5	13
35	A comparison study of water diffusion in unidirectional and <sc>2D</sc> woven carbon/epoxy composites. Polymer Composites, 2022, 43, 118-129.	4.6	12
36	Electrohydraulic effects on the modelling of a vehicle active suspension. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2001, 215, 1077-1092.	1.9	11

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37	Development of a Methodology to Assess Mechanical Impulse Effects Resulting from Lightning Attachment to Lightweight Aircraft Structures. Applied Mechanics and Materials, 0, 24-25, 129-134.	0.2	10
38	Detection of Cracking in Gear Teeth Using Acoustic Emission. Applied Mechanics and Materials, 0, 24-25, 45-50.	0.2	10
39	Principal Component Analysis of Acoustic Emission Signals From Landing Gear Components: An Aid to Fatigue Fracture Detection. Strain, 2011, 47, e588-e594.	2.4	10
40	Detecting and Monitoring Cracks in Aerospace Materials Using Post-Processing of TSA and AE Data. Metals, 2019, 9, 748.	2.3	10
41	A Quantitative Study of the Relationship between Concrete Crack Parameters and Acoustic Emission Energy Released during Failure. Key Engineering Materials, 2003, 245-246, 461-466.	0.4	9
42	Harvesting Vibration Energy for Structural Health Monitoring in Aircraft. Key Engineering Materials, 2009, 413-414, 439-446.	0.4	9
43	Thermoelectric Energy Harvesting for Wireless Sensor Systems in Aircraft. Key Engineering Materials, 2009, 413-414, 487-494.	0.4	9
44	Validation of Acoustic Emission (AE) Crack Detection in Aerospace Grade Steel Using Digital Image Correlation. Applied Mechanics and Materials, 0, 24-25, 221-226.	0.2	9
45	Wireless power transmission using ultrasonic guided waves. Journal of Physics: Conference Series, 2011, 305, 012088.	0.4	9
46	Acoustic emission wave propagation in honeycomb sandwich panel structures. Composite Structures, 2021, 277, 114580.	5.8	9
47	A Practical Investigation into Acoustic Wave Propagation in Concrete Structures. Advanced Materials Research, 2006, 13-14, 205-212.	0.3	7
48	A Principal Component Analysis of Acoustic Emission Signals from a Landing Gear Component. Applied Mechanics and Materials, 2008, 13-14, 41-47.	0.2	7
49	Continuous wavelet transform analysis and modal location analysis acoustic emission source location for nuclear piping crack growth monitoring. AIP Conference Proceedings, 2014, , .	0.4	7
50	Damage Assessment in Steel Bridges. Key Engineering Materials, 1999, 167-168, 335-342.	0.4	6
51	Moment Tensor Analysis of Acoustic Emission in Concrete Specimens Failed in Four-Point Bending. Key Engineering Materials, 2003, 245-246, 443-450.	0.4	6
52	Acoustic Emission Assessment of Concrete Hinge Joints. Key Engineering Materials, 2003, 245-246, 323-330.	0.4	6
53	Identification of the Onset of Cracking in Gear Teeth Using Acoustic Emission. Journal of Physics: Conference Series, 2012, 382, 012050.	0.4	6
54	On the Development of a Damage Detection System using Macro-fibre Composite Sensors. Journal of Physics: Conference Series, 2012, 382, 012049.	0.4	6

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55	A Principal Component Analysis of Acoustic Emission Signals from a Landing Gear Component. Key Engineering Materials, 2007, 347, 139-144.	0.4	5
56	Impact Damage Detection and Assessment in Composite Panels using Macro Fibre Composites Transducers. Journal of Physics: Conference Series, 2011, 305, 012049.	0.4	5
57	Acoustic Emission Source Characterisation in Large-Scale Composite Structures. Applied Mechanics and Materials, 0, 70, 381-386.	0.2	5
58	Assessment of Bonded Patch Bridge Repairs Using Acoustic Emission and Acousto-Ultrasonics. Key Engineering Materials, 0, 518, 57-65.	0.4	5
59	An autonomous structural health monitoring solution. , 2013, , .		5
60	The acoustic evaluation of wire ropes immersed in water. NDT International, 1987, 20, 173-176.	0.0	4
61	Damage Assessment Using Acoustic Emission. Key Engineering Materials, 2001, 204-205, 309-318.	0.4	4
62	Design and characterization of an ultrasonic lamb-wave power delivery system. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 1134-1140.	3.0	4
63	Automated Damage Detection in Composite Components Using Acoustic Emission. Key Engineering Materials, 0, 569-570, 80-87.	0.4	4
64	Optimized placement of parasitic vibration energy harvesters for autonomous structural health monitoring. Journal of Intelligent Material Systems and Structures, 2020, 31, 1403-1415.	2.5	4
65	An Assessment of the Effect of Progressive Water Absorption on the Interlaminar Strength of Unidirectional Carbon/Epoxy Composites Using Acoustic Emission. Sensors, 2021, 21, 4351.	3.8	4
66	Acoustic Emission Monitoring of Metals. Springer Tracts in Civil Engineering, 2022, , 529-565.	0.5	4
67	Structural Integrity of Welded Steel Structures. Key Engineering Materials, 1999, 167-168, 142-151.	0.4	3
68	An industrial Learning Classifier System: the importance of pre-processing real data and choice of alphabet. Engineering Applications of Artificial Intelligence, 2000, 13, 25-36.	8.1	3
69	The application of a programmable servo controller to state control of an electrohydraulic active suspension. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2004, 218, 1367-1377.	1.9	3
70	Measuring the Torsional Stiffness of a Space Frame Chassis Using 3D Motion Capture Techniques. Applied Mechanics and Materials, 2006, 3-4, 423-428.	0.2	3
71	Shear wave ultrasonic coupling performance of different adhesives. Insight: Non-Destructive Testing and Condition Monitoring, 2008, 50, 633-636.	0.6	3
72	Experimental Validation of Dispersion Curves in Plates for Acoustic Emission. Advanced Materials Research, 2006, 13-14, 53-60.	0.3	2

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73	Wireless Power Transmission Using Ultrasonic Guided Waves â€” Electric Circuit Measurement and Simulation. Key Engineering Materials, 0, 518, 445-454.	0.4	2
74	Modelling the Effects of Geometric Imperfections on the Buckling and Initial Postâ€”buckling Behaviour of Flat Plates Under Compression Using Measured Data. Strain, 2012, 48, 208-215.	2.4	2
75	Chebyshev descriptors for SHM with acoustic emission and acousto ultrasonics. International Journal of Structural Integrity, 2014, 5, 202-213.	3.3	2
76	Special Issue on Acoustic Emission. Journal of Strain Analysis for Engineering Design, 2005, 40, i-iii.	1.8	1
77	Detection of Fatigue Crack Growth in Aircraft Landing Gear, 4 Point Bend Test Specimens. Key Engineering Materials, 2005, 293-294, 193-200.	0.4	1
78	Acoustic Emission Monitoring of Defects in Buckling CFRP Composite Panels. Advanced Materials Research, 2006, 13-14, 259-266.	0.3	1
79	Acoustic Emission Analysis of Prestressed Concrete Structures. Journal of Physics: Conference Series, 2011, 305, 012076.	0.4	1
80	Advanced Location and Characterisation of Damage in Complex Metallic Structures Using Acoustic Emission. , 2007, , 925-926.		1
81	Acoustic Emission Testing of a Landing Gear Component. Advanced Materials Research, 2006, 13-14, 29-34.	0.3	0
82	Confidence of Detection of Fracture Signals Using Acoustic Emission. Applied Mechanics and Materials, 2007, 7-8, 147-152.	0.2	0
83	A Numerical Determination of Acoustic Emission Sensor Response in Plates Using Dispersion Curves. Key Engineering Materials, 2007, 347, 381-386.	0.4	0
84	Detecting and Identifying Artificial Acoustic Emission Signals in an Industrial Fatigue Environment. Applied Mechanics and Materials, 2008, 13-14, 251-260.	0.2	0
85	Classification of Delamination and Matrix Cracking in Carbon Fibre Composite Plates Using Acoustic Emission (AE). , 2009, , .		0