

Karen M Holford

List of Publications by Year in descending order

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85
papers

1,982
citations

304743

22
h-index

265206

42
g-index

89
all docs

89
docs citations

89
times ranked

1472
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic Emission Monitoring of Metals. Springer Tracts in Civil Engineering, 2022, , 529-565.	0.5	4
2	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
3	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
4	Acoustic emission wave propagation in honeycomb sandwich panel structures. Composite Structures, 2021, 277, 114580.	5.8	9
5	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
6	Optimisation of acoustic emission wavestreaming for structural health monitoring. Structural Health Monitoring, 2020, 19, 2007-2022.	7.5	13
7	Detecting and Monitoring Cracks in Aerospace Materials Using Post-Processing of TSA and AE Data. Metals, 2019, 9, 748.	2.3	10
8	Characterisation of fatigue damage in composites using an Acoustic Emission Parameter Correction Technique. Composites Part B: Engineering, 2018, 151, 237-244.	12.0	29
9	A new methodology for automating acoustic emission detection of metallic fatigue fractures in highly demanding aerospace environments: An overview. Progress in Aerospace Sciences, 2017, 90, 1-11.	12.1	72
10	Buckling and postbuckling behaviour of Glare laminates containing splices and doublers. Part 1: Instrumented tests. Composite Structures, 2017, 176, 1158-1169.	5.8	18
11	Improved acoustic emission source location during fatigue and impact events in metallic and composite structures. Structural Health Monitoring, 2017, 16, 382-399.	7.5	50
12	Acoustic emission source location in complex structures using full automatic delta T mapping technique. Mechanical Systems and Signal Processing, 2016, 72-73, 513-524.	8.0	101
13	Localisation and identification of fatigue matrix cracking and delamination in a carbon fibre panel by acoustic emission. Composites Part B: Engineering, 2015, 74, 1-12.	12.0	69
14	Classification of acoustic emission data from buckling test of carbon fibre panel using unsupervised clustering techniques. Structural Health Monitoring, 2015, 14, 241-251.	7.5	33
15	Parameter Correction Technique (PCT): A novel method for acoustic emission characterisation in large-scale composites. Composites Part B: Engineering, 2015, 75, 336-344.	12.0	40
16	Damage classification in carbon fibre composites using acoustic emission: A comparison of three techniques. Composites Part B: Engineering, 2015, 68, 424-430.	12.0	158
17	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
18	Chebyshev descriptors for SHM with acoustic emission and acousto ultrasonics. International Journal of Structural Integrity, 2014, 5, 202-213.	3.3	2

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19	Damage classification in reinforced concrete beam by acoustic emission signal analysis. Construction and Building Materials, 2013, 45, 78-86.	7.2	206
20	Damage assessment of corrosion in prestressed concrete by acoustic emission. Construction and Building Materials, 2013, 40, 925-933.	7.2	105
21	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
22	An autonomous structural health monitoring solution. , 2013, , .		5
23	Towards improved damage location using acoustic emission. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2012, 226, 2141-2153.	2.1	37
24	Identification of the Onset of Cracking in Gear Teeth Using Acoustic Emission. Journal of Physics: Conference Series, 2012, 382, 012050.	0.4	6
25	On the Development of a Damage Detection System using Macro-fibre Composite Sensors. Journal of Physics: Conference Series, 2012, 382, 012049.	0.4	6
26	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
27	Acoustic emission source location in composite materials using Delta T Mapping. Composites Part A: Applied Science and Manufacturing, 2012, 43, 856-863.	7.6	100
28	Quantitative Evaluation of the Relationship between Tensile Crack and Shear Movement in Concrete Beams. Advanced Materials Research, 2012, 626, 355-359.	0.3	20
29	Energy Harvesting for Aerospace Structural Health Monitoring Systems. Journal of Physics: Conference Series, 2012, 382, 012025.	0.4	29
30	Acoustic emission source location on large plate-like structures using a local triangular sensor array. Mechanical Systems and Signal Processing, 2012, 30, 91-102.	8.0	53
31	Characterisation of Damage in Composite Structures using Acoustic Emission. Journal of Physics: Conference Series, 2011, 305, 012086.	0.4	14
32	Wireless power transmission using ultrasonic guided waves. Journal of Physics: Conference Series, 2011, 305, 012088.	0.4	9
33	Impact Damage Detection and Assessment in Composite Panels using Macro Fibre Composites Transducers. Journal of Physics: Conference Series, 2011, 305, 012049.	0.4	5
34	Acoustic Emission Analysis of Prestressed Concrete Structures. Journal of Physics: Conference Series, 2011, 305, 012076.	0.4	1
35	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
36	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

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37	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
38	Use of Macro Fibre Composite Transducers as Acoustic Emission Sensors. Remote Sensing, 2009, 1, 68-79.	4.0	21
39	Harvesting Vibration Energy for Structural Health Monitoring in Aircraft. Key Engineering Materials, 2009, 413-414, 439-446.	0.4	9
40	Classification of Delamination and Matrix Cracking in Carbon Fibre Composite Plates Using Acoustic Emission (AE)., 2009, , .		0
41	Detecting and identifying artificial acoustic emission signals in an industrial fatigue environment. Measurement Science and Technology, 2009, 20, 045101.	2.6	18
42	Thermoelectric Energy Harvesting for Wireless Sensor Systems in Aircraft. Key Engineering Materials, 2009, 413-414, 487-494.	0.4	9
43	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
44	Detecting and Identifying Artificial Acoustic Emission Signals in an Industrial Fatigue Environment. Applied Mechanics and Materials, 2008, 13-14, 251-260.	0.2	0
45	Shear wave ultrasonic coupling performance of different adhesives. Insight: Non-Destructive Testing and Condition Monitoring, 2008, 50, 633-636.	0.6	3
46	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
47	Confidence of Detection of Fracture Signals Using Acoustic Emission. Applied Mechanics and Materials, 2007, 7-8, 147-152.	0.2	0
48	A Principal Component Analysis of Acoustic Emission Signals from a Landing Gear Component. Key Engineering Materials, 2007, 347, 139-144.	0.4	5
49	A Numerical Determination of Acoustic Emission Sensor Response in Plates Using Dispersion Curves. Key Engineering Materials, 2007, 347, 381-386.	0.4	0
50	Delta T source location for acoustic emission. Mechanical Systems and Signal Processing, 2007, 21, 1512-1520.	8.0	153
51	Analysis of rheological properties of bone cements. Journal of Materials Science: Materials in Medicine, 2007, 18, 1407-1412.	3.6	27
52	Advanced Location and Characterisation of Damage in Complex Metallic Structures Using Acoustic Emission. , 2007, , 925-926.		1
53	Acoustic Emission Monitoring of Defects in Buckling CFRP Composite Panels. Advanced Materials Research, 2006, 13-14, 259-266.	0.3	1
54	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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55	A Practical Investigation into Acoustic Wave Propagation in Concrete Structures. <i>Advanced Materials Research</i> , 2006, 13-14, 205-212.	0.3	7
56	Measuring the Torsional Stiffness of a Space Frame Chassis Using 3D Motion Capture Techniques. <i>Applied Mechanics and Materials</i> , 2006, 3-4, 423-428.	0.2	3
57	Acoustic Emission Testing of a Landing Gear Component. <i>Advanced Materials Research</i> , 2006, 13-14, 29-34.	0.3	0
58	Special Issue on Acoustic Emission. <i>Journal of Strain Analysis for Engineering Design</i> , 2005, 40, i-iii.	1.8	1
59	Detection of Fatigue Crack Growth in Aircraft Landing Gear, 4 Point Bend Test Specimens. <i>Key Engineering Materials</i> , 2005, 293-294, 193-200.	0.4	1
60	Modal Analysis of Acoustic Emission Signals from Artificial and Fatigue Crack Sources in Aerospace Grade Steel. <i>Key Engineering Materials</i> , 2005, 293-294, 217-226.	0.4	22
61	Acoustic emission testing of bridges. , 2005, , 183-215.		14
62	The application of a programmable servo controller to state control of an electrohydraulic active suspension. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2004, 218, 1367-1377.	1.9	3
63	Automatic Classification of Acoustic Emission Patterns. <i>Strain</i> , 2003, 39, 31-41.	2.4	50
64	Moment Tensor Analysis of Acoustic Emission in Concrete Specimens Failed in Four-Point Bending. <i>Key Engineering Materials</i> , 2003, 245-246, 443-450.	0.4	6
65	A Quantitative Study of the Relationship between Concrete Crack Parameters and Acoustic Emission Energy Released during Failure. <i>Key Engineering Materials</i> , 2003, 245-246, 461-466.	0.4	9
66	Acoustic Emission Assessment of Concrete Hinge Joints. <i>Key Engineering Materials</i> , 2003, 245-246, 323-330.	0.4	6
67	Wavelet Signal Processing of Acoustic Emission Data. <i>Key Engineering Materials</i> , 2001, 204-205, 351-358.	0.4	14
68	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
69	Electrohydraulic effects on the modelling of a vehicle active suspension. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2001, 215, 1077-1092.	1.9	11
70	Damage Location in Steel Bridges by Acoustic Emission. <i>Journal of Intelligent Material Systems and Structures</i> , 2001, 12, 567-576.	2.5	46
71	Damage Assessment Using Acoustic Emission. <i>Key Engineering Materials</i> , 2001, 204-205, 309-318.	0.4	4
72	An industrial Learning Classifier System: the importance of pre-processing real data and choice of alphabet. <i>Engineering Applications of Artificial Intelligence</i> , 2000, 13, 25-36.	8.1	3

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73	Acoustic Emissionâ€™Basic Principles and Future Directions. Strain, 2000, 36, 51-54.	2.4	33
74	Structural Integrity of Welded Steel Structures. Key Engineering Materials, 1999, 167-168, 142-151.	0.4	3
75	Damage Assessment in Steel Bridges. Key Engineering Materials, 1999, 167-168, 335-342.	0.4	6
76	Acoustic Emission Source Location. Key Engineering Materials, 1999, 167-168, 162-171.	0.4	54
77	The acoustic evaluation of wire ropes immersed in water. NDT International, 1987, 20, 173-176.	0.0	4
78	Acoustic Emission in Structural Health Monitoring. Key Engineering Materials, 0, 413-414, 15-28.	0.4	21
79	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
80	Detection of Cracking in Gear Teeth Using Acoustic Emission. Applied Mechanics and Materials, 0, 24-25, 45-50.	0.2	10
81	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
82	Acoustic Emission Source Characterisation in Large-Scale Composite Structures. Applied Mechanics and Materials, 0, 70, 381-386.	0.2	5
83	Assessment of Bonded Patch Bridge Repairs Using Acoustic Emission and Acousto-Ultrasonics. Key Engineering Materials, 0, 518, 57-65.	0.4	5
84	Wireless Power Transmission Using Ultrasonic Guided Waves â€™ Electric Circuit Measurement and Simulation. Key Engineering Materials, 0, 518, 445-454.	0.4	2
85	Automated Damage Detection in Composite Components Using Acoustic Emission. Key Engineering Materials, 0, 569-570, 80-87.	0.4	4