Markus G R Sause

List of Publications by Year
in descending order

34 papers	1,042 citations	471509 17 h-index	414414 32 g-index
37 all docs	37 docs citations	37 times ranked	766 citing authors

#	Article	IF	Citations
1	Pattern recognition approach to identify natural clusters of acoustic emission signals. Pattern Recognition Letters, 2012, 33, 17-23.	4.2	169
2	Simulation of Acoustic Emission in Planar Carbon Fiber Reinforced Plastic Specimens. Journal of Nondestructive Evaluation, 2010, 29, 123-142.	2.4	108
3	Quantification of failure mechanisms in mode-I loading of fiber reinforced plastics utilizing acoustic emission analysis. Composites Science and Technology, 2012, 72, 167-174.	7.8	108
4	Mechanisms of Origin and Classification of Out-of-Plane Fiber Waviness in Composite Materialsâ€"A Review. Journal of Composites Science, 2020, 4, 130.	3.0	60
5	Modeling of Acoustic Emission Signal Propagation in Waveguides. Sensors, 2015, 15, 11805-11822.	3.8	49
6	In Situ Monitoring of Fiber-Reinforced Composites. Springer Series in Materials Science, 2016, , .	0.6	48
7	Microscopic analysis of single-fiber push-out tests on ceramic matrix composites performed with Berkovich and flat-end indenter and evaluation of interfacial fracture toughness. Journal of the European Ceramic Society, 2013, 33, 441-451.	5.7	45
8	Influence of plastic deformation on single-fiber push-out tests of carbon fiber reinforced epoxy resin. Composites Part A: Applied Science and Manufacturing, 2015, 71, 157-167.	7.6	43
9	Influence of residual thermal stress in carbon fiber-reinforced thermoplastic composites on interfacial fracture toughness evaluated by cyclic single-fiber push-out tests. Composites Part A: Applied Science and Manufacturing, 2014, 66, 117-127.	7.6	42
10	Finite Element Modelling of Cracks as Acoustic Emission Sources. Journal of Nondestructive Evaluation, 2015, 34, 1.	2.4	40
11	Finite element modeling of conical acoustic emission sensors and corresponding experiments. Sensors and Actuators A: Physical, 2012, 184, 64-71.	4.1	36
12	Quantification of metallic coating failure on carbon fiber reinforced plastics using acoustic emission. Surface and Coatings Technology, 2009, 204, 300-308.	4.8	31
13	Quantification of crack area in ceramic matrix composites at single-fiber push-out testing and influence of pyrocarbon fiber coating thickness on interfacial fracture toughness. Journal of the European Ceramic Society, 2015, 35, 2981-2989.	5.7	27
14	Deciphering acoustic emission signals in drought stressed branches: the missing link between source and sensor. Frontiers in Plant Science, 2015, 6, 494.	3.6	26
15	Quantification of the Uncertainty of Pattern Recognition Approaches Applied to Acoustic Emission Signals. Journal of Nondestructive Evaluation, 2013, 32, 242-255.	2.4	25
16	Clustering reveals cavitation-related acoustic emission signals from dehydrating branches. Tree Physiology, 2016, 36, 786-796.	3.1	24
17	Development of intimate contact during processing of carbon fiber reinforced Polyamide-6 tapes. Journal of Reinforced Plastics and Composites, 2017, 36, 593-607.	3.1	23
18	Influence of partial crossâ€linking degree on basic physical properties of RTM6 epoxy resin. Journal of Applied Polymer Science, 2013, 130, 4338-4346.	2.6	16

#	Article	IF	Citations
19	Failure of Fiber-Reinforced Composites. Springer Series in Materials Science, 2016, , 5-55.	0.6	14
20	Modeling of ultrasonic wave propagation in composite laminates with realistic discontinuity representation. Ultrasonics, 2018, 83, 103-113.	3.9	14
21	Classification of solutions for guided waves in anisotropic composites with large numbers of layers. Journal of the Acoustical Society of America, 2018, 144, 3236-3251.	1.1	14
22	7.14 Acoustic Emission Analysis. , 2018, , 291-326.		14
23	An Experimentally Accessible Probability of Detection Model for Acoustic Emission Measurements. Journal of Nondestructive Evaluation, 2018, 37, 1.	2.4	13
24	Progressive failure monitoring and analysis in aluminium by in situ nondestructive evaluation. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2133-2145.	3.4	10
25	Joining of carbon fiber reinforced polymer laminates by a novel partial cross‑linking process. Journal of Applied Polymer Science, 2015, 132, .	2.6	9
26	Digital Image Correlation. Springer Series in Materials Science, 2016, , 57-129.	0.6	7
27	Fractography combined with unsupervised pattern recognition of acoustic emission signals for a better understanding of crack propagation in adhesively bonded wood. Wood Science and Technology, 2019, 53, 1235-1253.	3.2	6
28	Acoustic Emission. Springer Series in Materials Science, 2016, , 131-359.	0.6	5
29	Towards Real-time Process Monitoring and Machine Learning for Manufacturing Composite Structures. , 2020, , .		5
30	Electromagnetic Emission. Springer Series in Materials Science, 2016, , 361-456.	0.6	3
31	Acoustic Emission. Springer Aerospace Technology, 2021, , 175-217.	0.3	3
32	Combination of Methods. Springer Series in Materials Science, 2016, , 533-609.	0.6	1
33	High-resolution X-ray computed tomography simulations of synthetically-generated volume porosity in continuous carbon fibre-reinforced polymer samples. Nondestructive Testing and Evaluation, 2022, 37, 645-665.	2.1	1
34	AE in Polymeric Composites. Springer Tracts in Civil Engineering, 2022, , 621-661.	0.5	0