

# Markus G R Sause

## List of Publications by Year in descending order

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Version: 2024-02-01

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	AE in Polymeric Composites. Springer Tracts in Civil Engineering, 2022, , 621-661.	0.5	0
2	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
3	Acoustic Emission. Springer Aerospace Technology, 2021, , 175-217.	0.3	3
4	Towards Real-time Process Monitoring and Machine Learning for Manufacturing Composite Structures. , 2020, , .		5
5	Mechanisms of Origin and Classification of Out-of-Plane Fiber Waviness in Composite Materials – A Review. Journal of Composites Science, 2020, 4, 130.	3.0	60
6	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
7	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
8	An Experimentally Accessible Probability of Detection Model for Acoustic Emission Measurements. Journal of Nondestructive Evaluation, 2018, 37, 1.	2.4	13
9	Modeling of ultrasonic wave propagation in composite laminates with realistic discontinuity representation. Ultrasonics, 2018, 83, 103-113.	3.9	14
10	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
11	7.14 Acoustic Emission Analysis. , 2018, , 291-326.		14
12	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
13	Clustering reveals cavitation-related acoustic emission signals from dehydrating branches. Tree Physiology, 2016, 36, 786-796.	3.1	24
14	Failure of Fiber-Reinforced Composites. Springer Series in Materials Science, 2016, , 5-55.	0.6	14
15	Digital Image Correlation. Springer Series in Materials Science, 2016, , 57-129.	0.6	7
16	Acoustic Emission. Springer Series in Materials Science, 2016, , 131-359.	0.6	5
17	In Situ Monitoring of Fiber-Reinforced Composites. Springer Series in Materials Science, 2016, , .	0.6	48
18	Electromagnetic Emission. Springer Series in Materials Science, 2016, , 361-456.	0.6	3

#	ARTICLE	IF	CITATIONS
19	Combination of Methods. Springer Series in Materials Science, 2016, , 533-609.	0.6	1
20	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
21	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
22	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
23	Finite Element Modelling of Cracks as Acoustic Emission Sources. Journal of Nondestructive Evaluation, 2015, 34, 1.	2.4	40
24	Modeling of Acoustic Emission Signal Propagation in Waveguides. Sensors, 2015, 15, 11805-11822.	3.8	49
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	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
27	Quantification of the Uncertainty of Pattern Recognition Approaches Applied to Acoustic Emission Signals. Journal of Nondestructive Evaluation, 2013, 32, 242-255.	2.4	25
28	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
29	Influence of partial cross-linking degree on basic physical properties of RTM6 epoxy resin. Journal of Applied Polymer Science, 2013, 130, 4338-4346.	2.6	16
30	Finite element modeling of conical acoustic emission sensors and corresponding experiments. Sensors and Actuators A: Physical, 2012, 184, 64-71.	4.1	36
31	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
32	Pattern recognition approach to identify natural clusters of acoustic emission signals. Pattern Recognition Letters, 2012, 33, 17-23.	4.2	169
33	Simulation of Acoustic Emission in Planar Carbon Fiber Reinforced Plastic Specimens. Journal of Nondestructive Evaluation, 2010, 29, 123-142.	2.4	108
34	Quantification of metallic coating failure on carbon fiber reinforced plastics using acoustic emission. Surface and Coatings Technology, 2009, 204, 300-308.	4.8	31