

Shirsendu Sikdar

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

507
citations

623734

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31
all docs

31
docs citations

31
times ranked

394
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of disbond and high density core region in a honeycomb composite sandwich structure using ultrasonic guided waves. <i>Composite Structures</i> , 2016, 152, 568-578.	5.8	61
2	Acoustic emission data based deep learning approach for classification and detection of damage-sources in a composite panel. <i>Composites Part B: Engineering</i> , 2022, 228, 109450.	12.0	57
3	Damage-induced acoustic emission source monitoring in a honeycomb sandwich composite structure. <i>Composites Part B: Engineering</i> , 2019, 158, 179-188.	12.0	47
4	Online detection of barely visible low-speed impact damage in 3D-core sandwich composite structure. <i>Composite Structures</i> , 2018, 185, 646-655.	5.8	42
5	Effects of debonding on Lamb wave propagation in a bonded composite structure under variable temperature conditions. <i>Smart Materials and Structures</i> , 2019, 28, 015021.	3.5	30
6	Damage-induced acoustic emission source identification in an advanced sandwich composite structure. <i>Composite Structures</i> , 2018, 202, 860-866.	5.8	27
7	Ultrasonic Lamb wave-based debonding monitoring of advanced honeycomb sandwich composite structures. <i>Strain</i> , 2019, 55, e12302.	2.4	23
8	Ultrasonic guided wave propagation and disbond identification in a honeycomb composite sandwich structure using bonded piezoelectric wafer transducers. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 1767-1779.	2.5	21
9	Nondestructive analysis of core-junction and joint-debond effects in advanced composite structure. <i>Polymer Testing</i> , 2019, 73, 31-38.	4.8	19
10	Guided wave propagation in a honeycomb composite sandwich structure in presence of a high density core. <i>Ultrasonics</i> , 2016, 71, 86-97.	3.9	18
11	An optimized data fusion strategy for structural damage assessment using electromechanical impedance. <i>Smart Materials and Structures</i> , 2021, 30, 035012.	3.5	18
12	A deep-learning approach for health monitoring of a steel frame structure with bolted connections. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	4.0	17
13	Guided wave based nondestructive analysis of localized inhomogeneity effects in an advanced sandwich composite structure. <i>Composites Part B: Engineering</i> , 2019, 176, 107195.	12.0	16
14	Bag of visual words based machine learning framework for disbond characterisation in composite sandwich structures using guided waves. <i>Smart Materials and Structures</i> , 2021, 30, 075016.	3.5	15
15	Nonlinear elastic wave propagation and breathing-debond identification in a smart composite structure. <i>Composites Part B: Engineering</i> , 2020, 200, 108304.	12.0	14
16	Ultrasonic Guided Wave Signal Based Nondestructive Testing of a Bonded Composite Structure Using Piezoelectric Transducers. <i>Signals</i> , 2021, 2, 13-24.	1.9	13
17	Nondestructive Analysis of Debonds in a Composite Structure under Variable Temperature Conditions. <i>Sensors</i> , 2019, 19, 3454.	3.8	12
18	Multi step structural health monitoring approaches in debonding assessment in a sandwich honeycomb composite structure using ultrasonic guided waves. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 194, 111057.	5.0	12

#	ARTICLE	IF	CITATIONS
19	Multi-level nondestructive analysis of joint-debond effects in sandwich composite structure. <i>Polymer Testing</i> , 2019, 80, 106149.	4.8	11
20	Acoustic emission based damage localization in composites structures using Bayesian identification. <i>Journal of Physics: Conference Series</i> , 2017, 842, 012081.	0.4	9
21	Electromechanical impedance based debond localisation in a composite sandwich structure. <i>Journal of Intelligent Material Systems and Structures</i> , 2022, 33, 1487-1496.	2.5	7
22	Ultrasonic guided wave-based debond identification in a GFRP plate with L-stiffener. <i>Smart Materials and Structures</i> , 2022, 31, 015023.	3.5	7
23	A Generic Framework for Application of Machine Learning in Acoustic Emission-Based Damage Identification. <i>Lecture Notes in Mechanical Engineering</i> , 2020, , 244-262.	0.4	6
24	Low-velocity impact source localization in a composite sandwich structure using a broadband piezoelectric sensor network. <i>Composite Structures</i> , 2022, 291, 115619.	5.8	4
25	Study of disbond effects in a jointed composite structure under variable ambient temperatures. , 2018, , .		1
26	Damage Assessment for a Sandwich-Like Panel Using Experimental and Numerical Analysis of Guided Waves. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 73-84.	0.4	0
27	Guided Wave Propagation and Breathing-Debond Localization in a Composite Structure. <i>Lecture Notes in Civil Engineering</i> , 2021, , 378-386.	0.4	0
28	Wave Propagation in a Honeycomb Composite Sandwich Structure in the Presence of High-Density Core Using Bonded PZT-Sensors. <i>Mechanisms and Machine Science</i> , 2015, , 619-628.	0.5	0
29	Ultrasonic guided wave propagation in a repaired stiffened composite panel. , 2019, , .		0
30	Guided Wave Propagation Based Analysis of Non-linear Debonding Effects in a Composite Structure. , 0, , .		0
31	Numerical Simulation Techniques for Damage Response Analysis of Composite Structures. , 2021, , 85-100.		0