

Hu Sun

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

624
citations

840776

11
h-index

610901

24
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28
all docs

28
docs citations

28
times ranked

568
citing authors

#	ARTICLE	IF	CITATIONS
1	Piezoelectric Transducer-Based Structural Health Monitoring for Aircraft Applications. <i>Sensors</i> , 2019, 19, 545.	3.8	285
2	A flexible ionic liquid-polyurethane sponge capacitive pressure sensor. <i>Sensors and Actuators A: Physical</i> , 2019, 285, 67-72.	4.1	66
3	A novel eddy current array sensing film for quantitatively monitoring hole-edge crack growth in bolted joints. <i>Smart Materials and Structures</i> , 2019, 28, 015018.	3.5	30
4	Hidden corrosion detection using laser ultrasonic guided waves with multi-frequency local wavenumber estimation. <i>Ultrasonics</i> , 2020, 108, 106182.	3.9	30
5	Active Monitoring of Fatigue Crack in the Weld Zone of Bogie Frames Using Ultrasonic Guided Waves. <i>Sensors</i> , 2019, 19, 3372.	3.8	23
6	Identification and Compensation Technique of Non-Uniform Temperature Field for Lamb Wave-and Multiple Sensors-Based Damage Detection. <i>Sensors</i> , 2019, 19, 2930.	3.8	22
7	A two-dimensional eddy current array-based sensing film for estimating failure modes and tracking damage growth of bolted joints. <i>Structural Health Monitoring</i> , 2021, 20, 877-893.	7.5	19
8	Propagation characteristics of ultrasonic weld-guided waves in Friction stir welding joint of same material. <i>Ultrasonics</i> , 2020, 102, 106058.	3.9	14
9	High Strain Survivability of Piezoceramics by Optimal Bonding Adhesive Design. <i>Sensors</i> , 2018, 18, 2554.	3.8	13
10	A multi-level damage classification technique of aircraft plate structures using Lamb wave-based deep transfer learning network. <i>Smart Materials and Structures</i> , 2022, 31, 075019.	3.5	13
11	On-Site Health Monitoring of Composite Bolted Joint Using Built-In Distributed Eddy Current Sensor Network. <i>Materials</i> , 2019, 12, 2785.	2.9	12
12	Baseline-free damage imaging for metal and composite plate-type structures based on similar paths. <i>International Journal of Distributed Sensor Networks</i> , 2019, 15, 155014771984305.	2.2	12
13	An Improved Matching Pursuit-Based Temperature and Load Compensation Method for Ultrasonic Guided Wave Signals. <i>IEEE Access</i> , 2020, 8, 67530-67541.	4.2	12
14	A new interleaving eddy current array-based sensing film for fatigue crack quantification of bolted joints. <i>Journal of Intelligent Material Systems and Structures</i> , 2021, 32, 1867-1877.	2.5	11
15	Fractal Dimension-Based Damage Imaging for Composites. <i>Shock and Vibration</i> , 2013, 20, 979-988.	0.6	9
16	A Reference Matching-Based Temperature Compensation Method for Ultrasonic Guided Wave Signals. <i>Sensors</i> , 2019, 19, 5174.	3.8	8
17	A Local TR-MUSIC Algorithm for Damage Imaging of Aircraft Structures. <i>Sensors</i> , 2021, 21, 3334.	3.8	7
18	Prognosis of fatigue cracks in an aircraft wing using an adaptive tunable network and guided wave based structural health monitoring. <i>Smart Materials and Structures</i> , 2021, 30, 105025.	3.5	7

#	ARTICLE	IF	CITATIONS
19	Crack Monitoring for Hot-Spot Areas Under Time-Varying Load Condition Based on FCM Clustering Algorithm. IEEE Access, 2019, 7, 118850-118856.	4.2	6
20	An Eddy Current-Based Structural Health Monitoring Technique for Tracking Bolt Cracking. Sensors, 2020, 20, 6843.	3.8	6
21	On-site monitoring of bearing failure in composite bolted joints using built-in eddy current sensing film. Journal of Composite Materials, 2021, 55, 1893-1905.	2.4	6
22	Identification and imaging of multi-defects on a complicated composite structure by ultrasonic guided wave. Polymer Testing, 2022, 106, 107466.	4.8	5
23	Modeling Lamb Wave Propagation in Damaged Structures Based upon Spectral Element Method. Advanced Materials Research, 0, 570, 79-86.	0.3	3
24	Quantifying Hole-Edge Crack of Bolt Joints by Using an Embedding Triangle Eddy Current Sensing Film. Sensors, 2021, 21, 2567.	3.8	3
25	Spectral element method for modeling Lamb wave interaction with open and closed crack. Journal of Vibroengineering, 2017, 19, 4965-4976.	1.0	2
26	Numerical modeling of the load effect on PZT-induced guided wave for load compensation of damage detection. , 2017, , .		0
27	Random demodulation for structural health monitoring excited by the five-cycle sine burst. MATEC Web of Conferences, 2017, 139, 00075.	0.2	0
28	Quantitative monitoring of hole-edge damage growth using eddy current array sensor-based intelligent bolt. , 2018, , .		0