Yaozhong Liao

List of Publications by Year in descending order

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18	484	759233 12	839539 18
papers	citations	h-index	g-index

18	18	18	375
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Contact acoustic nonlinearity (CAN)-based continuous monitoring of bolt loosening: Hybrid use of high-order harmonics and spectral sidebands. Mechanical Systems and Signal Processing, 2018, 103, 280-294.	8.0	88
2	Ultra-broadband frequency responsive sensor based on lightweight and flexible carbon nanostructured polymeric nanocomposites. Carbon, 2017, 121, 490-501.	10.3	46
3	Vibro-acoustic modulation (VAM)-inspired structural integrity monitoring and its applications to bolted composite joints. Composite Structures, 2017, 176, 505-515.	5.8	44
4	Broadband dynamic responses of flexible carbon black/poly (vinylidene fluoride) nanocomposites: A sensitivity study. Composites Science and Technology, 2017, 149, 246-253.	7.8	37
5	Graphene-functionalized polymer composites for self-sensing of ultrasonic waves: An initiative towards â€œsensor-freeâ€•structural health monitoring. Composites Science and Technology, 2018, 168, 203-213.	7.8	34
6	An inkjet-printed, flexible, ultra-broadband nanocomposite film sensor for in-situ acquisition of high-frequency dynamic strains. Composites Part A: Applied Science and Manufacturing, 2019, 125, 105554.	7.6	34
7	Ultrafast response of spray-on nanocomposite piezoresistive sensors to broadband ultrasound. Carbon, 2019, 143, 743-751.	10.3	33
8	Applications of a nanocomposite-inspired in-situ broadband ultrasonic sensor to acousto-ultrasonics-based passive and active structural health monitoring. Ultrasonics, 2017, 78, 166-174.	3.9	28
9	A coatable, light-weight, fast-response nanocomposite sensor for thein situacquisition of dynamic elastic disturbance: from structural vibration to ultrasonic waves. Smart Materials and Structures, 2016, 25, 065005.	3.5	25
10	Graphene-based nanocomposite strain sensor response to ultrasonic guided waves. Composites Science and Technology, 2019, 174, 42-49.	7.8	21
11	Sustainableâ€Macromoleculeâ€Assisted Preparation of Crossâ€linked, Ultralight, Flexible Graphene Aerogel Sensors toward Lowâ€Frequency Strain/Pressure to Highâ€Frequency Vibration Sensing. Small, 2022, 18, e2202047.	10.0	20
12	A Spray-on, Nanocomposite-Based Sensor Network for in-Situ Active Structural Health Monitoring. Sensors, 2019, 19, 2077.	3.8	17
13	An ultra-thin printable nanocomposite sensor network for structural health monitoring. Structural Health Monitoring, 2021, 20, 894-903.	7.5	14
14	An implantable, compatible and networkable nanocomposite piezoresistive sensor for in situ acquisition of dynamic responses of CFRPs. Composites Science and Technology, 2021, 208, 108747.	7.8	10
15	A highly sensitive polydopamine@hybrid carbon nanofillers based nanocomposite sensor for acquiring high-frequency ultrasonic waves. Carbon, 2020, 170, 403-413.	10.3	9
16	On a Highly Reproducible, Broadband Nanocomposite Ultrasonic Film Sensor Fabricated by Ultrasonic Atomizationâ€Assisted Spray Coating. Advanced Engineering Materials, 2020, 22, 2000462.	3.5	9
17	Temperature effect on all-inkjet-printed nanocomposite piezoresistive sensors for ultrasonics-based health monitoring. Composites Science and Technology, 2020, 197, 108273.	7.8	8
18	Ultrasound tomography for health monitoring of carbon fibreâ€“reinforced polymers using implanted nanocomposite sensor networks and enhanced reconstruction algorithm for the probabilistic inspection of damage imaging. Structural Health Monitoring, 2022, 21, 1110-1122.	7.5	7