

# Yaozhong Liao

## List of Publications by Year in descending order

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