

Jung Ryul Lee

List of Publications by Year in descending order

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185
papers

3,298
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186209

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docs citations

189
times ranked

2224
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Structural health monitoring for a wind turbine system: a review of damage detection methods. Measurement Science and Technology, 2008, 19, 122001. | 1.4 | 569 |
| 2 | Structural imaging through local wavenumber estimation of guided waves. NDT and E International, 2013, 59, 1-10. | 1.7 | 149 |
| 3 | Progress in frequency selective surface-based smart electromagnetic structures: A critical review. Aerospace Science and Technology, 2017, 66, 216-234. | 2.5 | 143 |
| 4 | Review of pyroshock wave measurement and simulation for space systems. Measurement: Journal of the International Measurement Confederation, 2012, 45, 631-642. | 2.5 | 78 |
| 5 | A Fully Non-Contact Ultrasonic Propagation Imaging System for Closed Surface Crack Evaluation. Experimental Mechanics, 2012, 52, 1111-1122. | 1.1 | 74 |
| 6 | In-flight health monitoring of a subscale wing using a fiber Bragg grating sensor system. Smart Materials and Structures, 2003, 12, 147-155. | 1.8 | 73 |
| 7 | Laser ultrasonic propagation imaging method in the frequency domain based on wavelet transformation. Optics and Lasers in Engineering, 2011, 49, 167-175. | 2.0 | 72 |
| 8 | Laser ultrasonic anomalous wave propagation imaging method with adjacent wave subtraction: Algorithm. Optics and Laser Technology, 2012, 44, 1507-1515. | 2.2 | 65 |
| 9 | Application of ultrasonic wave propagation imaging method to automatic damage visualization of nuclear power plant pipeline. Nuclear Engineering and Design, 2010, 240, 3513-3520. | 0.8 | 64 |
| 10 | Laser ultrasonic anomalous wave propagation imaging method with adjacent wave subtraction: Application to actual damages in composite wing. Optics and Laser Technology, 2012, 44, 428-440. | 2.2 | 57 |
| 11 | Performance and non-destructive evaluation methods of airborne radome and stealth structures. Measurement Science and Technology, 2018, 29, 062001. | 1.4 | 57 |
| 12 | A novel fiber Bragg grating acoustic emission sensor head for mechanical tests. Scripta Materialia, 2005, 53, 1181-1186. | 2.6 | 52 |
| 13 | Long distance laser ultrasonic propagation imaging system for damage visualization. Optics and Lasers in Engineering, 2011, 49, 1361-1371. | 2.0 | 51 |
| 14 | Health monitoring of complex curved structures using an ultrasonic wavefield propagation imaging system. Measurement Science and Technology, 2007, 18, 3816-3824. | 1.4 | 49 |
| 15 | Digital phase-shifting grating shearography for experimental analysis of fabric composites under tension. Composites Part A: Applied Science and Manufacturing, 2004, 35, 849-859. | 3.8 | 44 |
| 16 | Investigation of fatigue crack in stainless steel using a mobile fiber Bragg grating ultrasonic sensor. Optical Fiber Technology, 2007, 13, 209-214. | 1.4 | 41 |
| 17 | Disbond monitoring at wing stringer tip based on built-in ultrasonic transducers and a pulsed laser. Smart Materials and Structures, 2007, 16, 1025-1035. | 1.8 | 39 |
| 18 | Impact wave and damage detections using a strain-free fiber Bragg grating ultrasonic receiver. NDT and E International, 2007, 40, 85-93. | 1.7 | 39 |

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|----|---|-----|-----------|
| 19 | Three dimensional evaluation of aluminum plates with wall-thinning by full-field pulse-echo laser ultrasound. <i>Optics and Lasers in Engineering</i> , 2017, 99, 58-65. | 2.0 | 39 |
| 20 | Recent advances in thin and broadband layered microwave absorbing and shielding structures for commercial and defense applications. <i>Functional Composites and Structures</i> , 2019, 1, 032001. | 1.6 | 39 |
| 21 | A time-of-flight mapping method for laser ultrasound guided in a pipe and its application to wall thinning visualization. <i>NDT and E International</i> , 2011, 44, 680-691. | 1.7 | 38 |
| 22 | A review of health and operation monitoring technologies for trains. <i>Smart Structures and Systems</i> , 2010, 6, 1079-1105. | 1.9 | 35 |
| 23 | Sensor application of fibre ultrasonic waveguide. <i>Measurement Science and Technology</i> , 2006, 17, 645-652. | 1.4 | 33 |
| 24 | Investigation of a fibre wave piezoelectric transducer. <i>Measurement Science and Technology</i> , 2006, 17, 2414-2420. | 1.4 | 32 |
| 25 | Composite aircraft debonding visualization by laser ultrasonic scanning excitation and integrated piezoelectric sensing. <i>Structural Control and Health Monitoring</i> , 2012, 19, 605-620. | 1.9 | 31 |
| 26 | Application of grating shearography and speckle shearography to mechanical analysis of composite material. <i>Composites Part A: Applied Science and Manufacturing</i> , 2004, 35, 965-976. | 3.8 | 30 |
| 27 | Aircraft integrated structural health monitoring using lasers, piezoelectricity, and fiber optics. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 125, 294-302. | 2.5 | 30 |
| 28 | Fiber optic liquid leak detection technique with an ultrasonic actuator and a fiber Bragg grating. <i>Optics Letters</i> , 2005, 30, 3293. | 1.7 | 29 |
| 29 | A structural corrosion-monitoring sensor based on a pair of prestrained fiber Bragg gratings. <i>Measurement Science and Technology</i> , 2010, 21, 017002. | 1.4 | 27 |
| 30 | Single-mode fibre optic Bragg grating sensing on the base of birefringence in surface-mounting and embedding applications. <i>Optics and Laser Technology</i> , 2007, 39, 157-164. | 2.2 | 26 |
| 31 | Microwave absorption properties of FSS-impacted composites as a broadband microwave absorber. <i>Advanced Composite Materials</i> , 2017, 26, 99-113. | 1.0 | 26 |
| 32 | Fatigue crack propagation monitoring of stainless steel using fiber Bragg grating ultrasound sensors. <i>Smart Materials and Structures</i> , 2006, 15, 1429-1437. | 1.8 | 25 |
| 33 | Strain and damage monitoring of CFRP in impact loading using a fiber Bragg grating sensor system. <i>Composites Science and Technology</i> , 2007, 67, 1353-1361. | 3.8 | 25 |
| 34 | Buckling behavior monitoring of a composite wing box using multiplexed and multi-channelled built-in fiber Bragg grating strain sensors. <i>NDT and E International</i> , 2008, 41, 534-543. | 1.7 | 24 |
| 35 | Simultaneous multipoint acoustic emission sensing using fibre acoustic wave grating sensors with identical spectrum. <i>Journal of Optics</i> , 2008, 10, 085307. | 1.5 | 24 |
| 36 | Acousto-ultrasonic sensing using capsular fibre Bragg gratings for temperature compensation. <i>Measurement Science and Technology</i> , 2006, 17, 2920-2926. | 1.4 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Radome health management based on synthesized impact detection, laser ultrasonic spectral imaging, and wavelet-transformed ultrasonic propagation imaging methods. <i>Composites Part B: Engineering</i> , 2012, 43, 2898-2906. | 5.9 | 22 |
| 38 | Nondestructive prediction of point source pyroshock response spectra based on experimental conditioning of laser-induced shocks. <i>Optics and Laser Technology</i> , 2014, 61, 24-33. | 2.2 | 22 |
| 39 | Comparative Study of Laser Doppler Vibrometer and Capacitive Air-coupled Transducer for Ultrasonic Propagation Imager and the New Development of an Efficient Ultrasonic Wavenumber Imaging Algorithm. <i>Strain</i> , 2015, 51, 332-342. | 1.4 | 22 |
| 40 | Investigation of shear distance in Michelson interferometer-based shearography for mechanical characterization. <i>Measurement Science and Technology</i> , 2008, 19, 115303. | 1.4 | 21 |
| 41 | A health management technology for multisite cracks in an in-service aircraft fuselage based on multi-time-frame laser ultrasonic energy mapping and serially connected PZTs. <i>Aerospace Science and Technology</i> , 2016, 54, 114-121. | 2.5 | 21 |
| 42 | Development of scanning single port free space measurement setup for imaging reflection loss of microwave absorbing materials. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 125, 114-122. | 2.5 | 21 |
| 43 | Hot target inspection using a welded fibre acoustic wave piezoelectric sensor and a laser-ultrasonic mirror scanner. <i>Measurement Science and Technology</i> , 2009, 20, 127003. | 1.4 | 20 |
| 44 | Repeat scanning technology for laser ultrasonic propagation imaging. <i>Measurement Science and Technology</i> , 2013, 24, 085201. | 1.4 | 20 |
| 45 | Spar disbond visualization in in-service composite UAV with ultrasonic propagation imager. <i>Aerospace Science and Technology</i> , 2015, 45, 180-185. | 2.5 | 20 |
| 46 | Thickness reconstruction of nuclear power plant pipes with flow-accelerated corrosion damage using laser ultrasonic wavenumber imaging. <i>Structural Health Monitoring</i> , 2018, 17, 255-265. | 4.3 | 20 |
| 47 | Visualization and simulation of a linear explosive-induced pyroshock wave using Q-switched laser and phased array transducers in a space launcher composite structure. <i>Optics and Laser Technology</i> , 2015, 67, 12-19. | 2.2 | 19 |
| 48 | Videoscope-based inspection of turbofan engine blades using convolutional neural networks and image processing. <i>Structural Health Monitoring</i> , 2019, 18, 2020-2039. | 4.3 | 19 |
| 49 | Underwater vibration analysis method for rotating propeller blades using laser Doppler vibrometer. <i>Optics and Lasers in Engineering</i> , 2020, 132, 106133. | 2.0 | 19 |
| 50 | Incipient crack detection in a composite wind turbine rotor blade. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 613-620. | 1.4 | 18 |
| 51 | Investigation of laser pulse fatigue effect on unpainted and painted CFRP structures. <i>Composites Part B: Engineering</i> , 2014, 58, 343-351. | 5.9 | 18 |
| 52 | Pyroshock Prediction of Ridge-Cut Explosive Bolts Using Hydrocodes. <i>Shock and Vibration</i> , 2016, 2016, 1-14. | 0.3 | 18 |
| 53 | Filament-wound composite pressure vessel inspection based on rotational through-transmission laser ultrasonic propagation imaging. <i>Composite Structures</i> , 2020, 236, 111871. | 3.1 | 18 |
| 54 | Development of an Optical System for Simultaneous Ultrasonic Wave Propagation Imaging at Multi-points. <i>Experimental Mechanics</i> , 2010, 50, 1041-1049. | 1.1 | 17 |

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|----|---|-----|-----------|
| 55 | Investigation of cladding and coating stripping methods for specialty optical fibers. Optics and Lasers in Engineering, 2011, 49, 324-330. | 2.0 | 17 |
| 56 | Feasibility of <i>in situ</i> blade deflection monitoring of a wind turbine using a laser displacement sensor within the tower. Smart Materials and Structures, 2013, 22, 027002. | 1.8 | 17 |
| 57 | A review of flaws and damage in space launch vehicles: Motors and engines. Journal of Intelligent Material Systems and Structures, 2014, 25, 524-540. | 1.4 | 17 |
| 58 | Composite repair patch evaluation using pulse-echo laser ultrasonic correlation mapping method. Composite Structures, 2018, 204, 395-401. | 3.1 | 17 |
| 59 | Novel Fiber Optic Sensor Probe with a Pair of Highly Reflected Connectors and a Vessel of Water Absorption Material for Water Leak Detection. Sensors, 2012, 12, 10906-10919. | 2.1 | 15 |
| 60 | Use of Time-Series Predictive Models for Piezoelectric Active-Sensing in Structural Health Monitoring Applications. Journal of Vibration and Acoustics, Transactions of the ASME, 2012, 134, . | 1.0 | 15 |
| 61 | Assessing joint integrity of a lug assembly using piezoelectric active sensors. Structural Control and Health Monitoring, 2012, 19, 621-631. | 1.9 | 15 |
| 62 | Multi-directional adjacent wave subtraction and shifted time point mapping algorithms and their application to defect visualization in a space tank liner. NDT and E International, 2017, 86, 53-64. | 1.7 | 15 |
| 63 | Development of a long-range multi-area scanning ultrasonic propagation imaging system built into a hangar and its application on an actual aircraft. Structural Health Monitoring, 2017, 16, 97-111. | 4.3 | 14 |
| 64 | Optimization of the design of radar-absorbing composite structures using response surface model with verification using scanning free space measurement. Composite Structures, 2018, 186, 106-113. | 3.1 | 14 |
| 65 | Design of resonant acoustic sensors using fiber Bragg gratings. Measurement Science and Technology, 2010, 21, 057001. | 1.4 | 13 |
| 66 | SNR enhancement for composite application using multiple Doppler vibrometers based laser ultrasonic propagation imager. Optics and Lasers in Engineering, 2016, 84, 82-88. | 2.0 | 13 |
| 67 | Development of PZT-excited stroboscopic shearography for full-field nondestructive evaluation. Review of Scientific Instruments, 2017, 88, 053301. | 0.6 | 13 |
| 68 | Parametric optimization of pulse-echo laser ultrasonic system for inspection of thick polymer matrix composites. Structural Health Monitoring, 2020, 19, 443-453. | 4.3 | 13 |
| 69 | Spatial resolution and resolution in phase-shifting laser interferometry. Measurement Science and Technology, 2005, 16, 2525-2533. | 1.4 | 12 |
| 70 | Apodized fibre Bragg grating acousto-ultrasonic sensor under arbitrary strain using dual Fabry-Pérot filters. Journal of Optics, 2007, 9, 95-100. | 1.5 | 12 |
| 71 | Thermo Elastic Analysis of a Type 3 Cryogenic Tank Considering Curing Temperature and Autofrettage Pressure. Journal of Reinforced Plastics and Composites, 2008, 27, 459-472. | 1.6 | 12 |
| 72 | Statistical threshold determination method through noise map generation for two dimensional amplitude and time-of-flight mapping of guided waves. Journal of Sound and Vibration, 2013, 332, 1252-1264. | 2.1 | 12 |

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|----|--|-----|-----------|
| 73 | Investigation of mobile ultrasonic propagation imager as a tool for composite wind blade quality control. <i>Composite Structures</i> , 2015, 133, 39-45. | 3.1 | 12 |
| 74 | Development of wireless laser blade deflection monitoring system for mobile wind turbine management host. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 1384-1397. | 1.4 | 11 |
| 75 | Prediction and validation of electromagnetic performance of curved radar-absorbing structures based on equivalent circuit model and ray tracking method. <i>Composites Science and Technology</i> , 2018, 167, 547-554. | 3.8 | 11 |
| 76 | Investigation of manufacturing defects in 3D-printed CFRP using laser ultrasonic testing and x-ray micro-computed tomography. <i>Functional Composites and Structures</i> , 2021, 3, 025005. | 1.6 | 11 |
| 77 | Development of a Numerical Model for an Expanding Tube with Linear Explosive Using AUTODYN. <i>Shock and Vibration</i> , 2014, 2014, 1-10. | 0.3 | 10 |
| 78 | Pyroshock Acceleration Field Reconstruction in Temporal and Spectral Domains Based on Laser Shock Scanning and Iterative Decomposition and Synthesis Considering Stop Band Effects. <i>Shock and Vibration</i> , 2017, 2017, 1-19. | 0.3 | 10 |
| 79 | Visualization of pyroshock wave reduction by insulator using a laser shock based simulation method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 137, 302-311. | 2.5 | 10 |
| 80 | <title>Buckling behavior monitoring of composite wing box model using fiber Bragg grating sensor system</title>. , 2001, , . | | 9 |
| 81 | Design of multiplexed fiber optic chemical sensing system using clad-removable optical fibers. <i>Optics and Laser Technology</i> , 2012, 44, 269-280. | 2.2 | 9 |
| 82 | Comparative analysis of laser ultrasonic propagation imaging system with capacitance and piezoelectric air-coupled transducers. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 551-562. | 1.4 | 9 |
| 83 | In situ non-destructive evaluation of an aircraft UHF antenna radome based on pulse-echo ultrasonic propagation imaging. <i>Composite Structures</i> , 2017, 160, 16-22. | 3.1 | 9 |
| 84 | Novel optimization method of single square FSS impinged and cascaded radar absorbing composites. <i>Advanced Composite Materials</i> , 2018, 27, 297-307. | 1.0 | 9 |
| 85 | Corner inspection method for L-shaped composite structures using laser ultrasonic rotational scanning technique. <i>Advanced Composite Materials</i> , 2020, , 1-12. | 1.0 | 9 |
| 86 | FPGA-based design and implementation of data acquisition and real-time processing for laser ultrasound propagation. <i>International Journal of Aeronautical and Space Sciences</i> , 2016, 17, 467-475. | 1.0 | 9 |
| 87 | Diffraction grating interferometers for mechanical characterisations of advanced fabric laminates. <i>Optics and Laser Technology</i> , 2006, 38, 51-66. | 2.2 | 8 |
| 88 | Design of copper/carbon-coated fiber Bragg grating acoustic sensor net for integrated health monitoring of nuclear power plant. <i>Nuclear Engineering and Design</i> , 2011, 241, 1889-1898. | 0.8 | 8 |
| 89 | A lasing wavelength stabilized simultaneous multipoint acoustic sensing system using pressure-coupled fiber Bragg gratings. <i>Optics and Lasers in Engineering</i> , 2011, 49, 110-120. | 2.0 | 8 |
| 90 | Laser-based structural training algorithm for acoustic emission localization and damage accumulation visualization in a bolt joint structure. <i>Structural Health Monitoring</i> , 2019, 18, 1851-1861. | 4.3 | 8 |

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| 91 | Real world application of angular scan pulse-echo ultrasonic propagation imager for damage tolerance evaluation of full-scale composite fuselage. Structural Health Monitoring, 2019, 18, 1943-1952. | 4.3 | 8 |
| 92 | Robotic laser sensing and laser mirror excitation for pulse-echo scanning inspection of fixed composite structures with non-planar geometries. Measurement: Journal of the International Measurement Confederation, 2021, 176, 109109. | 2.5 | 8 |
| 93 | Structural damage identification based on laser ultrasonic propagation imaging technology. Proceedings of SPIE, 2009, , . | 0.8 | 7 |
| 94 | Design of Fiber Bragg Grating Acoustic Sensor for Structural Health Monitoring of Nuclear Power Plant. Advanced Materials Research, 2010, 123-125, 859-862. | 0.3 | 7 |
| 95 | Fully Noncontact Wave Propagation Imaging in an Immersed Metallic Plate with a Crack. Shock and Vibration, 2014, 2014, 1-8. | 0.3 | 7 |
| 96 | A novel fiber optic bolt loosening monitoring sensor system for aircraft bolt joints. Journal of Intelligent Material Systems and Structures, 2014, 25, 647-653. | 1.4 | 7 |
| 97 | Development of single channeled serial-connected piezoelectric sensor array and damage visualization based on multi-source wave propagation imaging. Journal of Intelligent Material Systems and Structures, 2016, 27, 1861-1870. | 1.4 | 7 |
| 98 | FPGA-based ultrasonic energy mapping with source removal method for damage visualization in composite structures. Advanced Composite Materials, 2017, 26, 3-13. | 1.0 | 7 |
| 99 | Evaluation of Mechanical/Electromagnetic Preformation of Single-Sided Active Frequency Selective Surface for Stealth Radomes. International Journal of Aeronautical and Space Sciences, 2021, 22, 1235-1242. | 1.0 | 7 |
| 100 | Defect visualization of cylindrical and conical CFRP lattice structures using rotational ultrasonic propagation imager. Measurement Science and Technology, 2021, 32, 124001. | 1.4 | 7 |
| 101 | Monitoring of cracks at an open hole using built-in fibre wave piezoelectric transducers. Measurement Science and Technology, 2006, 17, 2643-2649. | 1.4 | 6 |
| 102 | Ultrasonic Active Fiber Sensor based on Pulse-echo Method. Journal of Intelligent Material Systems and Structures, 2009, 20, 1035-1043. | 1.4 | 6 |
| 103 | A health management algorithm for composite train carbody based on FEM/FBG hybrid method. Composite Structures, 2010, 92, 1019-1026. | 3.1 | 6 |
| 104 | Wave propagation visualization in an experimental model for a control rod drive mechanism assembly. Nuclear Engineering and Design, 2011, 241, 3761-3767. | 0.8 | 6 |
| 105 | Laser excitation and fully non-contact sensing ultrasonic propagation imaging system for damage evaluation. , 2012, , . | | 6 |
| 106 | <i>In Situ</i> Blade Deflection Monitoring of a Wind Turbine Using a Wireless Laser Displacement Sensor Device within the Tower. Key Engineering Materials, 2013, 558, 84-91. | 0.4 | 6 |
| 107 | Shock Response Spectra Reconstruction of Pointwise Explosive-Induced Pyroshock Based on Signal Processing of Laser Shocks. Shock and Vibration, 2014, 2014, 1-14. | 0.3 | 6 |
| 108 | Pointwise Explosive-Induced Pyroshock Wave Prediction Based on Numerical Conditioning of Laser Shocks. Experimental Mechanics, 2014, 54, 1651-1671. | 1.1 | 6 |

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|-----|--|-----|-----------|
| 109 | Dual-energy wave subtraction imaging for evaluation of barely visible impact damage with an ultrasonic propagation imaging system. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 3411-3425. | 1.4 | 6 |
| 110 | A novel fiber optic temperature monitoring sensor using hard-polymer-clad fiber and an optical time-domain reflectometer. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 654-661. | 1.4 | 5 |
| 111 | Monitoring bolt torque levels through signal processing of full-field ultrasonic data. , 2014, , . | | 5 |
| 112 | Application of the ultrasonic propagation imaging system to an immersed metallic structure with a crack under a randomly oscillating water surface. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 4099-4108. | 0.7 | 5 |
| 113 | Development of dual port scanning free space measurement system. <i>Measurement Science and Technology</i> , 2018, 29, 075403. | 1.4 | 5 |
| 114 | Nondestructive detection of incipient thermal damage in glass fiber reinforced epoxy composite using the ultrasonic propagation imaging. <i>Functional Composites and Structures</i> , 2019, 1, 025006. | 1.6 | 5 |
| 115 | Investigation of underwater environmental effects in rotating propeller blade tracking laser vibrometric measurement. <i>Optics and Laser Technology</i> , 2020, 132, 106460. | 2.2 | 5 |
| 116 | Fiber Sensor Based on Piezoelectric Ultrasonic Wave. <i>Journal of Intelligent Material Systems and Structures</i> , 2008, 19, 299-304. | 1.4 | 4 |
| 117 | Ultrasonic Propagation Imaging for Wind Turbine Blade Quality Evaluation. <i>Advanced Materials Research</i> , 2010, 123-125, 847-850. | 0.3 | 4 |
| 118 | Development of a novel human-machine interface exploiting sensor substitution for structural health monitoring. , 2013, , . | | 4 |
| 119 | Review of flaws and damages in space launch vehicle: Structures. <i>Journal of Intelligent Material Systems and Structures</i> , 2013, 24, 4-20. | 1.4 | 4 |
| 120 | A Versatile Inspection System for Pipe Structure Using Ultrasonic Waves Propagation Imager. <i>Journal of Physics: Conference Series</i> , 2015, 628, 012015. | 0.3 | 4 |
| 121 | Development of an FPGA-based multipoint laser pyroshock measurement system for explosive bolts. <i>Review of Scientific Instruments</i> , 2016, 87, 073302. | 0.6 | 4 |
| 122 | Broadband Laser Ultrasonic Excitation and Multi-band Sensing for Hierarchical Automatic Damage Visualization. <i>International Journal of Aeronautical and Space Sciences</i> , 2019, 20, 913-932. | 1.0 | 4 |
| 123 | Development of autonomous target recognition and scanning technology for pulse-echo ultrasonic propagation imager. <i>Structural Health Monitoring</i> , 2020, 19, 1064-1074. | 4.3 | 4 |
| 124 | Laser-based structural training algorithm for AE localization and damage accumulation visualization in a composite wing skin with various sub-structures. <i>Smart Materials and Structures</i> , 2020, 29, 115014. | 1.8 | 4 |
| 125 | Nondestructive detection of delamination and debonding of CFRP by a laser-based ultrasonic visualization method. , 2007, 6531, 47. | | 3 |
| 126 | Development of a laser-powered wireless strain gauge device using a continuous-wave laser and photovoltaic cell. <i>Journal of Intelligent Material Systems and Structures</i> , 2016, 27, 2333-2343. | 1.4 | 3 |

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|-----|---|-----|-----------|
| 127 | Remote defect visualization of standard composite coupons using a mobile pulse-echo ultrasonic propagation imager. <i>Advanced Composite Materials</i> , 2017, 26, 15-27. | 1.0 | 3 |
| 128 | Nondestructive and electromagnetic evaluations of stealth structures damaged by lightning strike. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 2567-2574. | 1.4 | 3 |
| 129 | Investigation of the damage effect on electromagnetic performance evaluation of a radar absorbing structure. <i>Materials Research Express</i> , 2019, 6, 115546. | 0.8 | 3 |
| 130 | Reflection loss field visualization of curved RAS based on scanning free-space measurement and curvature compensation using perfect electric conductor. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 153, 107408. | 2.5 | 3 |
| 131 | Radome Inspection Based on Ultrasonic Frequency Tomography and Ultrasonic Energy Propagation Imaging. , 2010, , . | | 2 |
| 132 | Aircraft Wing Inspection Based on Anomalous Wave Propagation Imaging. <i>Advanced Materials Research</i> , 2010, 123-125, 879-882. | 0.3 | 2 |
| 133 | All-Fiber Optic Chemical Sensors for Public Safety Monitoring. <i>Advanced Materials Research</i> , 2010, 123-125, 855-858. | 0.3 | 2 |
| 134 | Multi-source energy harvesting for wireless SHM systems. , 2013, , . | | 2 |
| 135 | Imaging and Characterizing Structural Defects through the Estimation of Local Dispersion Curves. <i>Key Engineering Materials</i> , 0, 569-570, 956-961. | 0.4 | 2 |
| 136 | Laser Ultrasonic System for Surface Crack Visualization in Dissimilar Welds of Control Rod Drive Mechanism Assembly of Nuclear Power Plant. <i>Shock and Vibration</i> , 2014, 2014, 1-10. | 0.3 | 2 |
| 137 | International Conference on Advances in Structural Health Management and Composite Structures “ASHMCS 2012. <i>Advanced Composite Materials</i> , 2014, 23, 1-1. | 1.0 | 2 |
| 138 | Non-destructive visualization of linear explosive-induced Pyroshock using phase arrayed laser-induced shock in a space launcher composite. <i>Journal of Physics: Conference Series</i> , 2015, 628, 012104. | 0.3 | 2 |
| 139 | Dual-energy wave subtraction imaging for damage detection in ultrasonic propagation imaging system. , 2016, , . | | 2 |
| 140 | FPGA-based multipoint shock wave measurement system using LDVs for aerospace applications. , 2016, , . | | 2 |
| 141 | Composite NDE using full-field pulse-echo ultrasonic propagation imaging system. , 2016, , . | | 2 |
| 142 | Development of a wireless pilot arm “wearable haptic interface for unmanned aerial vehicle wing deflection sensing. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 1130-1139. | 1.4 | 2 |
| 143 | Damage visualization of a cylindrical CFRP lattice-skin structure based on a pulse-echo ultrasonic propagation imager. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 147, 106837. | 2.5 | 2 |
| 144 | Transmission frequency variable stealth radome using the mutual inductance effect for two frequency selective surfaces. <i>Smart Materials and Structures</i> , 2019, 28, 074005. | 1.8 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | Reverberation-based high-speed guided-wave ultrasonic propagation imager for structural inspection of thick composites. <i>Composite Structures</i> , 2021, 259, 113446. | 3.1 | 2 |
| 146 | Simultaneous external and internal inspection of a cylindrical CFRP lattice-skin structure based on rotational ultrasonic propagation imaging and laser displacement sensing. <i>Composite Structures</i> , 2021, 276, 114592. | 3.1 | 2 |
| 147 | Simultaneous active strain and ultrasonic measurement using fiber acoustic wave piezoelectric transducers. <i>Smart Structures and Systems</i> , 2013, 11, 185-197. | 1.9 | 2 |
| 148 | Laser structural training, artificial intelligence-based acoustic emission localization and structural/noise signal distinguishment in a thick FCEV fuel tank. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 4236-4254. | 3.8 | 2 |
| 149 | Rotation included 3-axis scanning free-space measurement and curvature compensation for electromagnetic evaluation of leading-edge and curved stealth structures. <i>Measurement Science and Technology</i> , 2022, 33, 055903. | 1.4 | 2 |
| 150 | Sensor application of fibre ultrasonic waveguide. <i>Measurement Science and Technology</i> , 2006, 17, 1235-1235. | 1.4 | 1 |
| 151 | Simultaneous multipoint acousto-ultrasonic sensing based on fiber wave Bragg grating sensors. , 2007, , . | | 1 |
| 152 | Effect of Laser Pulse Fatigue on the Mechanical Characteristics of a CFRP Plate. <i>Applied Mechanics and Materials</i> , 2012, 225, 121-126. | 0.2 | 1 |
| 153 | Loosening Monitoring of Bolted Joints Using Optical Fiber Bending Sensor for Aircraft Lug Assembly. <i>Applied Mechanics and Materials</i> , 2012, 225, 540-545. | 0.2 | 1 |
| 154 | Wave Rich Laser Ultrasonic Wavenumber Imaging for Laser Ultrasonic Propagation Imaging System With Air-Coupled Transducer. , 2013, , . | | 1 |
| 155 | Structural Health Monitoring of Research-Scale Wind Turbine Blades. <i>Key Engineering Materials</i> , 0, 558, 364-373. | 0.4 | 1 |
| 156 | Anti-Aliasing for the Visualization of Wavefield Propagation. <i>Applied Mechanics and Materials</i> , 2014, 629, 493-497. | 0.2 | 1 |
| 157 | Remote imaging of local resonance for inspection of honeycomb sandwich composite panels. , 2015, , . | | 1 |
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