

Fuh-Gwo Yuan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

2,249
citations

26
h-index

46
g-index

80
ext. papers

2,625
ext. citations

3.6
avg, IF

5.64
L-index

#	Paper	IF	Citations
74	Carbon nanotube yarn strain sensors. <i>Nanotechnology</i> , 2010 , 21, 305502	3.4	177
73	A lightweight yet sound-proof honeycomb acoustic metamaterial. <i>Applied Physics Letters</i> , 2015 , 106, 171905	3.4	140
72	Focusing guided waves using surface bonded elastic metamaterials. <i>Applied Physics Letters</i> , 2013 , 103, 121901	3.4	107
71	Mechanical and electrical property improvement in CNT/Nylon composites through drawing and stretching. <i>Composites Science and Technology</i> , 2011 , 71, 1677-1683	8.6	106
70	Producing superior composites by winding carbon nanotubes onto a mandrel under a poly(vinyl alcohol) spray. <i>Carbon</i> , 2011 , 49, 4786-4791	10.4	100
69	Nonlinear bending and vibration analysis of functionally graded porous tubes via a nonlocal strain gradient theory. <i>Composite Structures</i> , 2018 , 203, 614-623	5.3	95
68	On nonlinear bending behavior of FG porous curved nanotubes. <i>International Journal of Engineering Science</i> , 2019 , 135, 58-74	5.7	88
67	On buckling and postbuckling behavior of nanotubes. <i>International Journal of Engineering Science</i> , 2017 , 121, 130-142	5.7	86
66	On vibrations of porous nanotubes. <i>International Journal of Engineering Science</i> , 2018 , 125, 23-35	5.7	77
65	Thermal buckling and post-buckling analysis of functionally graded beams based on a general higher-order shear deformation theory. <i>Applied Mathematical Modelling</i> , 2017 , 47, 340-357	4.5	74
64	Scaling effect of flexoelectric (Ba,Sr)TiO ₃ microcantilevers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011 , 5, 350-352	2.5	63
63	Flexoelectric strain gradient detection using Ba _{0.64} Sr _{0.36} TiO ₃ for sensing. <i>Applied Physics Letters</i> , 2012 , 101, 252903	3.4	60
62	On wave propagation of porous nanotubes. <i>International Journal of Engineering Science</i> , 2018 , 130, 62-74	5.7	57
61	Nonlinear analysis of bending, thermal buckling and post-buckling for functionally graded tubes by using a refined beam theory. <i>Composite Structures</i> , 2017 , 165, 74-82	5.3	53
60	Fundamental understanding of wave generation and reception using d(36) type piezoelectric transducers. <i>Ultrasonics</i> , 2015 , 57, 135-43	3.5	44
59	Guided wave generation, sensing and damage detection using in-plane shear piezoelectric wafers. <i>Smart Materials and Structures</i> , 2014 , 23, 015014	3.4	42
58	Lamb wave-based subwavelength damage imaging using the DORT-MUSIC technique in metallic plates. <i>Structural Health Monitoring</i> , 2016 , 15, 65-80	4.4	40

57	A trapezoidal flexoelectric accelerometer. <i>Journal of Intelligent Material Systems and Structures</i> , 2014 , 25, 271-277	2.3	38
56	Damage identification for composite structures using a cross-correlation reverse-time migration technique. <i>Structural Health Monitoring</i> , 2015 , 14, 558-570	4.4	38
55	Non-contact ultrasonic technique for Lamb wave characterization in composite plates. <i>Ultrasonics</i> , 2016 , 64, 162-9	3.5	37
54	Uncertainty Reduction of Damage Growth Properties Using Structural Health Monitoring. <i>Journal of Aircraft</i> , 2010 , 47, 2030-2038	1.6	36
53	Flexoelectricity in barium strontium titanate thin film. <i>Applied Physics Letters</i> , 2014 , 105, 142904	3.4	35
52	A rapid, fully non-contact, hybrid system for generating Lamb wave dispersion curves. <i>Ultrasonics</i> , 2015 , 61, 62-70	3.5	33
51	A cubic triangular finite element for flat plates with shear. <i>International Journal for Numerical Methods in Engineering</i> , 1989 , 28, 109-126	2.4	31
50	A higher order finite element for laminated beams. <i>Composite Structures</i> , 1990 , 14, 125-150	5.3	30
49	Guided torsional wave generation of a linear in-plane shear piezoelectric array in metallic pipes. <i>Ultrasonics</i> , 2016 , 65, 69-77	3.5	27
48	Research on nonlinear bending behaviors of FGM infinite cylindrical shallow shells resting on elastic foundations in thermal environments. <i>Composite Structures</i> , 2017 , 170, 111-121	5.3	26
47	Damage imaging using non-contact air-coupled transducer/laser Doppler vibrometer system. <i>Structural Health Monitoring</i> , 2016 , 15, 193-203	4.4	25
46	Probabilistic fatigue damage prognosis using surrogate models trained via three-dimensional finite element analysis. <i>Structural Health Monitoring</i> , 2017 , 16, 291-308	4.4	23
45	3D printing of electroactive PVDF thin films with high β phase content. <i>Smart Materials and Structures</i> , 2019 , 28, 065017	3.4	22
44	Improvement of Progressive Damage Model to Predicting Crashworthy Composite Corrugated Plate. <i>Applied Composite Materials</i> , 2018 , 25, 45-66	2	22
43	Impact source identification in finite isotropic plates using a time-reversal method: experimental study. <i>Smart Materials and Structures</i> , 2012 , 21, 105025	3.4	21
42	Damage Modes Recognition and Hilbert-Huang Transform Analyses of CFRP Laminates Utilizing Acoustic Emission Technique. <i>Applied Composite Materials</i> , 2016 , 23, 155-178	2	20
41	Stabilizing carbon nanotube yarns using chemical vapor infiltration. <i>Composites Science and Technology</i> , 2014 , 90, 82-87	8.6	20
40	Impact source identification in finite isotropic plates using a time-reversal method: theoretical study. <i>Smart Materials and Structures</i> , 2010 , 19, 105028	3.4	20

39	Conversion of evanescent Lamb waves into propagating waves via a narrow aperture edge. <i>Journal of the Acoustical Society of America</i> , 2015 , 137, 3523-33	2.2	19
38	Impact damage visualization in a honeycomb composite panel through laser inspection using zero-lag cross-correlation imaging condition. <i>Ultrasonics</i> , 2018 , 87, 152-165	3.5	18
37	A quantitative damage imaging technique based on enhanced CCRTM for composite plates using 2D scan. <i>Smart Materials and Structures</i> , 2016 , 25, 105022	3.4	18
36	Miniature horizontal axis wind turbine system for multipurpose application. <i>Energy</i> , 2014 , 75, 216-224	7.9	18
35	Lamb-wave-based two-dimensional areal scan damage imaging using reverse-time migration with a normalized zero-lag cross-correlation imaging condition. <i>Structural Health Monitoring</i> , 2017 , 16, 444-457	4.4	17
34	Wave reflection and transmission in composite beams containing semi-infinite delamination. <i>Journal of Sound and Vibration</i> , 2008 , 313, 676-695	3.9	17
33	A semi-analytical approach for SH guided wave mode conversion from evanescent into propagating. <i>Ultrasonics</i> , 2018 , 84, 430-437	3.5	16
32	Enhanced Phase in Direct Ink Writing PVDF Thin Films by Intercalation of Graphene. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 1497-1502	3.2	12
31	Damage imaging of reinforced concrete structures using electromagnetic migration algorithm. <i>International Journal of Solids and Structures</i> , 2006 , 43, 5886-5908	3.1	11
30	Damage imaging in a stiffened curved composite sandwich panel with wavenumber index via Riesz transform. <i>Structural Health Monitoring</i> , 2020 , 19, 902-916	4.4	11
29	Design and optimization of an OPFC ultrasonic linear phased array transducer. <i>International Journal of Mechanics and Materials in Design</i> , 2017 , 13, 57-69	2.5	10
28	Automated In-Process Cure Monitoring of Composite Laminates Using a Guided Wave-Based System With High-Temperature Piezoelectric Transducers. <i>Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems</i> , 2018 , 1,	0.9	10
27	Development of Time-Reversal Method for Impact Source Identification on Plate Structures. <i>Shock and Vibration</i> , 2013 , 20, 561-573	1.1	10
26	Augmented reality for enhanced visual inspection through knowledge-based deep learning. <i>Structural Health Monitoring</i> , 2021 , 20, 426-442	4.4	10
25	Impact diagnosis in stiffened structural panels using a deep learning approach. <i>Structural Health Monitoring</i> , 2021 , 20, 681-691	4.4	10
24	Extraction of guided wave dispersion curve in isotropic and anisotropic materials by Matrix Pencil method. <i>Ultrasonics</i> , 2018 , 89, 143-154	3.5	10
23	Direct Measurement of Opening Mode Stress Intensity Factors Using Flexoelectric Strain Gradient Sensors. <i>Experimental Mechanics</i> , 2015 , 55, 313-320	2.6	9
22	An enhanced performance of a horizontal diamagnetic levitation mechanism-based vibration energy harvester for low frequency applications. <i>Journal of Intelligent Material Systems and Structures</i> , 2017 , 28, 578-594	2.3	9

21	Fabrication and measurement of a flexoelectric micro-pyramid composite. <i>AIP Advances</i> , 2014 , 4, 127115-15	1.5	8
20	Higher-order finite element for short beams. <i>AIAA Journal</i> , 1988 , 26, 1415-1417	2.1	8
19	Design of an Orthotropic Piezoelectric Composite Material Phased Array Transducer for Damage Detection in a Concrete Structure. <i>Research in Nondestructive Evaluation</i> , 2016 , 27, 204-215	0.9	8
18	Guided Wave-based System for Real-time Cure Monitoring of Composites using Piezoelectric Discs and Phase-shifted Fiber Bragg Gratings. <i>Journal of Composite Materials</i> , 2019 , 53, 969-979	2.7	8
17	Enhanced damage imaging of a metallic plate using matching pursuit algorithm with multiple wavepaths. <i>Ultrasonics</i> , 2018 , 89, 84-101	3.5	8
16	Imaging of local porosity/voids using a fully non-contact air-coupled transducer and laser Doppler vibrometer system. <i>Structural Health Monitoring</i> , 2017 , 16, 164-173	4.4	7
15	Experimental study on identifying cracks of increasing size using ultrasonic excitation. <i>Structural Health Monitoring</i> , 2012 , 11, 95-108	4.4	7
14	Energy-absorption performance of composite corrugated plates with corrugated-shape ditch plug initiator. <i>Polymer Composites</i> , 2019 , 40, 1708-1717	3	6
13	Air-Coupled Nondestructive Evaluation Dissected. <i>Journal of Nondestructive Evaluation</i> , 2018 , 37, 1	2.1	5
12	Visualization of hidden damage from scattered wavefield reconstructed using an integrated high-speed camera system. <i>Structural Health Monitoring</i> , 2020 , 147592172094080	4.4	5
11	IWSHM 2017: Damage-scattered wave extraction in an integral stiffened isotropic plate: a baseline-subtraction-free approach. <i>Structural Health Monitoring</i> , 2018 , 17, 1365-1376	4.4	4
10	Adaptive signal decomposition and dispersion removal based on the matching pursuit algorithm using dispersion-based dictionary for enhancing damage imaging. <i>Ultrasonics</i> , 2020 , 103, 106087	3.5	4
9	A probabilistic fatigue life prediction for adhesively bonded joints via ANNs-based hybrid model. <i>International Journal of Fatigue</i> , 2021 , 151, 106352	5	4
8	Lamb wave-based BVID imaging for a curved composite sandwich panel 2017 ,		3
7	An intermetallic Fe ₂ r catalyst used for growing long carbon nanotube arrays. <i>Materials Letters</i> , 2010 , 64, 1947-1950	3.3	3
6	An anisotropic ultrasonic transducer for Lamb wave applications. <i>Smart Structures and Systems</i> , 2016 , 17, 1055-1065		3
5	Fatigue Damage Diagnostics Prognostics Framework for Remaining Life Estimation in Adhesive Joints. <i>AIAA Journal</i> , 1-19	2.1	3
4	Research on the Actuation Performance of 2D-Orthotropic Piezoelectric Composite Materials Linear Phased Array Transducer. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 5205-5210	1.3	2

3	Lamb waves based fast subwavelength imaging using a DORT-MUSIC algorithm 2016 ,		1
2	Damage Identification Using Electromagnetic Waves Based on Born Imaging Algorithm. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 717-728	2.4	1
1	Predictive Model of Dynamic Mechanical Properties of VE Damper Based on Acrylic Rubber/Graphene Oxide Composites Considering Aging Damage. <i>Journal of Aerospace Engineering</i> , 2022 , 35,	1.4	1