

Fangsen Cui

List of Publications by Year in descending order

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94
papers

1,819
citations

279701

23
h-index

302012

39
g-index

100
all docs

100
docs citations

100
times ranked

1719
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of vibration control methods for marine offshore structures. <i>Ocean Engineering</i> , 2016, 127, 279-297.	1.9	156
2	Nonlinear Finite Element Simulations to Elucidate the Determinants of Perforator Patency in Propeller Flaps. <i>Annals of Plastic Surgery</i> , 2007, 59, 672-678.	0.5	99
3	Dynamic response of tower crane induced by the pendulum motion of the payload. <i>International Journal of Solids and Structures</i> , 2006, 43, 376-389.	1.3	82
4	ANALYTICAL SOLUTIONS OF POLYMERIC GEL STRUCTURES UNDER BUCKLING AND WRINKLE. <i>International Journal of Applied Mechanics</i> , 2011, 03, 235-257.	1.3	76
5	The effectiveness of floating slab track system” Part I. Receptance methods. <i>Applied Acoustics</i> , 2000, 61, 441-453.	1.7	75
6	Tunable acoustic metamaterial with an array of resonators actuated by dielectric elastomer. <i>Extreme Mechanics Letters</i> , 2017, 12, 37-40.	2.0	61
7	Microstructure-based experimental and numerical investigations on the sound absorption property of open-cell metallic foams manufactured by a template replication technique. <i>Materials and Design</i> , 2018, 137, 108-116.	3.3	61
8	A Critical Review on Metallic Glasses as Structural Materials for Cardiovascular Stent Applications. <i>Journal of Functional Biomaterials</i> , 2018, 9, 19.	1.8	59
9	Membrane-type acoustic metamaterial with eccentric masses for broadband sound isolation. <i>Applied Acoustics</i> , 2020, 157, 107003.	1.7	57
10	Evaluating the effects of material properties of artificial meniscal implant in the human knee joint using finite element analysis. <i>Scientific Reports</i> , 2017, 7, 6011.	1.6	56
11	A numerical investigation on the sound insulation of ventilation windows. <i>Applied Acoustics</i> , 2017, 117, 113-121.	1.7	54
12	Homography-based measurement of bridge vibration using UAV and DIC method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 170, 108683.	2.5	49
13	On the sound insulation of acoustic metasurface using a sub-structuring approach. <i>Journal of Sound and Vibration</i> , 2017, 401, 190-203.	2.1	44
14	Ultrasonic detection and characterization of delamination and rich resin in thick composites with waviness. <i>Composites Science and Technology</i> , 2020, 189, 108016.	3.8	43
15	Structural damage detection using convolutional neural networks combining strain energy and dynamic response. <i>Meccanica</i> , 2020, 55, 945-959.	1.2	40
16	Sound transmission through a periodic acoustic metamaterial grating. <i>Journal of Sound and Vibration</i> , 2019, 449, 140-156.	2.1	39
17	Modal Strain Energy-Based Structural Damage Detection Using Convolutional Neural Networks. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3376.	1.3	34
18	Vibroacoustic modeling of an acoustic resonator tuned by dielectric elastomer membrane with voltage control. <i>Journal of Sound and Vibration</i> , 2017, 387, 114-126.	2.1	33

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19	A theoretical model for the bending of a laminated beam with SMA fiber embedded layer. Composite Structures, 2009, 90, 458-464.	3.1	30
20	Origami-inspired foldable sound barrier designs. Journal of Sound and Vibration, 2019, 442, 514-526.	2.1	28
21	Development of metacage for noise control and natural ventilation in a window system. Applied Acoustics, 2020, 170, 107510.	1.7	28
22	Design and finite element-based fatigue prediction of a new self-expandable percutaneous mitral valve stent. CAD Computer Aided Design, 2013, 45, 1153-1158.	1.4	27
23	A Novel Carotid Covered Stent Design: In Vitro Evaluation of Performance and Influence on the Blood Flow Regime at the Carotid Artery Bifurcation. Annals of Biomedical Engineering, 2013, 41, 1990-2002.	1.3	23
24	Transparent piezoelectric film speakers for windows with active noise mitigation function. Applied Acoustics, 2018, 137, 90-97.	1.7	23
25	In situ disbond detection in adhesive bonded multi-layer metallic joint using time-of-flight variation of guided wave. Ultrasonics, 2020, 102, 106062.	2.1	23
26	Detection and sizing of disbond in multilayer bonded structure using modally selective guided wave. Structural Health Monitoring, 2021, 20, 904-916.	4.3	22
27	Structural Damage Detection Based on Real-Time Vibration Signal and Convolutional Neural Network. Applied Sciences (Switzerland), 2020, 10, 4720.	1.3	21
28	Bifurcation and Chaos in the Duffing Oscillator with a PID Controller. Nonlinear Dynamics, 1997, 12, 251-262.	2.7	18
29	Effects of a carotid covered stent with a novel membrane design on the blood flow regime and hemodynamic parameters distribution at the carotid artery bifurcation. Medical and Biological Engineering and Computing, 2015, 53, 165-177.	1.6	18
30	Characterizing Hypervelocity Impact (HVI)-Induced Pitting Damage Using Active Guided Ultrasonic Waves: From Linear to Nonlinear. Materials, 2017, 10, 547.	1.3	18
31	Hemodynamic analysis of a novel stent graft design with slit perforations in thoracic aortic aneurysm. Journal of Biomechanics, 2019, 85, 210-217.	0.9	18
32	Structural Damage Features Extracted by Convolutional Neural Networks from Mode Shapes. Applied Sciences (Switzerland), 2020, 10, 4247.	1.3	18
33	EFFECTS OF BALLOON LENGTH AND COMPLIANCE ON VASCULAR STENT EXPANSION. International Journal of Applied Mechanics, 2010, 02, 681-697.	1.3	17
34	Design considerations and quantitative assessment for the development of percutaneous mitral valve stent. Medical Engineering and Physics, 2014, 36, 882-888.	0.8	17
35	A Metawindow with Optimised Acoustic and Ventilation Performance. Applied Sciences (Switzerland), 2021, 11, 3168.	1.3	17
36	Numerical Modeling of Intraventricular Flow during Diastole after Implantation of BMHV. PLoS ONE, 2015, 10, e0126315.	1.1	17

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37	Comparisons of node-based and element-based approaches of assigning bone material properties onto subject-specific finite element models. <i>Medical Engineering and Physics</i> , 2015, 37, 808-812.	0.8	15
38	Feasibility of using bulk metallic glass for self-expandable stent applications. , 2017, 105, 1874-1882.		15
39	Deployment of a Bulk Metallic Glass-Based Self-Expandable Stent in a Patient-Specific Descending Aorta. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1951-1958.	2.6	14
40	Predicting integrated thermal and acoustic performance in naturally ventilated high-rise buildings using CFD and FEM simulation. <i>Building Simulation</i> , 2018, 11, 507-518.	3.0	14
41	Nonlinear vibration analysis of composite blade with variable rotating speed using Chebyshev polynomials. <i>European Journal of Mechanics, A/Solids</i> , 2020, 82, 103976.	2.1	14
42	Bayesian Estimation of Instantaneous Speed for Rotating Machinery Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , 2021, 68, 8842-8852.	5.2	14
43	Pulsatile Flow Investigation in Development of Thoracic Aortic Aneurysm: An In-Vitro Validated Fluid Structure Interaction Analysis. <i>Journal of Applied Fluid Mechanics</i> , 2019, 12, 1855-1872.	0.4	13
44	Directed acoustic shearography for crack detection around fastener holes in aluminum plates. <i>NDT and E International</i> , 2018, 100, 124-131.	1.7	12
45	Modelling and simulation of the expansion of a shape memory polymer stent. <i>Engineering Computations</i> , 2019, 36, 2726-2746.	0.7	12
46	Simulated Bench Testing to Evaluate the Mechanical Performance of New Carotid Stents. <i>Artificial Organs</i> , 2017, 41, 267-272.	1.0	11
47	Nonlinear dynamic analysis of ring truss antenna equivalent to the cylindrical shell with thermal excitation. <i>European Journal of Mechanics, A/Solids</i> , 2021, 85, 104109.	2.1	11
48	Defect imaging in carbon fiber composites by acoustic shearography. <i>Composites Science and Technology</i> , 2022, 223, 109417.	3.8	11
49	On the acoustic analysis and optimization of ducted ventilation systems using a sub-structuring approach. <i>Journal of the Acoustical Society of America</i> , 2016, 139, 279-289.	0.5	10
50	Covered Stent Membrane Design for Treatment of Atheroembolic Disease at Carotid Artery Bifurcation and Prevention of Thromboembolic Stroke: An In Vitro Experimental Study. <i>Artificial Organs</i> , 2016, 40, 159-168.	1.0	10
51	Hypervelocity impact induced shock acoustic emission waves for quantitative damage evaluation using in situ miniaturized piezoelectric sensor network. <i>Chinese Journal of Aeronautics</i> , 2019, 32, 1059-1070.	2.8	10
52	Thoracic aorta stent grafts design in terms of biomechanical investigations into flexibility. <i>Mathematical Biosciences and Engineering</i> , 2021, 18, 800-816.	1.0	10
53	Stent design parameters and crimpability. <i>International Journal of Cardiology</i> , 2016, 223, 552-553.	0.8	9
54	Association of Hemodynamic Behavior in the Thoracic Aortic Aneurysm to the Intraluminal Thrombus Prediction: A Two-Way Fluid Structure Coupling Investigation. <i>International Journal of Applied Mechanics</i> , 2018, 10, 1850035.	1.3	8

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55	Effect of slurry composition on the microstructure and mechanical properties of SS316L open-cell foam. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 772, 138798.	2.6	8
56	Mode-mismatching enhanced disbond detection using material nonlinearity in guided waves at low frequency. <i>Journal of Sound and Vibration</i> , 2021, 490, 115733.	2.1	8
57	Non-anatomical placement adversely affects the functional performance of the meniscal implant: a finite element study. <i>Biomechanics and Modeling in Mechanobiology</i> , 2021, 20, 1167-1185.	1.4	8
58	An Experimental and Computational Study on the Effect of Caval Valved Stent Oversizing. <i>Cardiovascular Engineering and Technology</i> , 2016, 7, 254-269.	0.7	7
59	Nanoglass-based balloon expandable stents. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 73-79.	1.6	7
60	Measurement of Elastic Constant Matrix of Carbon Fiber Composites With an Ultrasonic 2D-Array Transducer. <i>IEEE Sensors Journal</i> , 2022, 22, 5562-5570.	2.4	7
61	Sparse wavenumber analysis of guided wave based on hybrid Lasso regression in composite laminates. <i>Structural Health Monitoring</i> , 2022, 21, 1367-1378.	4.3	6
62	Structural health monitoring of fastener hole using ring-design direct-write piezoelectric ultrasonic transducer. <i>Structural Health Monitoring</i> , 2022, 21, 2657-2669.	4.3	6
63	Biomechanical Assessment for Healing Progression of Fractured Long Bones: Comparisons of Various Methods Using Beam Models. <i>International Journal of Applied Mechanics</i> , 2016, 08, 1650074.	1.3	5
64	A systematic approach to further improve stent-graft performance. <i>Materials and Design</i> , 2021, 211, 110144.	3.3	5
65	Comment on "A biomechanical model of artery buckling" published on <i>Journal of Biomechanics</i> (volume 40, issue 16, pages 3672-3678). <i>Journal of Biomechanics</i> , 2010, 43, 801-802.	0.9	4
66	Numerical and Experimental Study on the Acoustic Performance of Ni-based Superalloy Open Cell Foam. <i>Procedia Engineering</i> , 2017, 214, 4-8.	1.2	4
67	A finite element simulation method to evaluate the crimpability of curved stents. <i>Medical Engineering and Physics</i> , 2019, 74, 162-165.	0.8	4
68	Nanoparticles-reinforced poly-l-lactic acid composite materials as bioresorbable scaffold candidates for coronary stents: Insights from mechanical and finite element analysis. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 125, 104977.	1.5	4
69	Effect of number of crowns on the crush resistance in open-cell stent design. <i>Journal of Mechanics of Materials and Structures</i> , 2020, 15, 75-86.	0.4	3
70	Piezoelectricity in Structural Adhesives and Application for Monitoring Joint Integrity via Guided Ultrasonic Waves. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2021, 68, 777-783.	1.7	3
71	Vibration Suppression for Beam-Like Repeating Lattice Structure Based on Equivalent Model by a Nonlinear Energy Sink. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-15.	0.6	3
72	A novel coating method to reduce membrane infolding through pre-crimping of covered stents " Computational and experimental evaluation. <i>Computers in Biology and Medicine</i> , 2022, 145, 105524.	3.9	2

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73	STRESS ANALYSIS OF CAROTID ARTERY STENT UNDER BENDING AND TORSION. Journal of Biomechanics, 2012, 45, S637.	0.9	1
74	A Novel Method for Impact Testing of Small Specimens - Numerical Simulation and Experiments. Experimental Mechanics, 2015, 55, 1247-1259.	1.1	1
75	Biomechanical Assessment for Healing Progression of Fractured Long Bones: Numerical Investigations of Bending Stiffness and Resonant Frequency. International Journal of Applied Mechanics, 2017, 09, 1750041.	1.3	1
76	Optimization of a Novel Preferential Covered Stent through Bench Experiments and in Vitro Platelet Activation Studies. ACS Biomaterials Science and Engineering, 2019, 5, 6216-6230.	2.6	1
77	Design and evaluation of the crimping of a hooked self-expandable caval valve stent for the treatment of tricuspid regurgitation. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 533-546.	0.9	1
78	Prostate deformable registration through geometric transformation by finite element method. Meccanica, 2020, 55, 669-680.	1.2	1
79	Measurement of the Luminal Diameter of Peripheral Arterial Vasculature in Yorkshire—Landrace Swine by Using Ultrasonography and Angiography. Journal of the American Association for Laboratory Animal Science, 2020, , .	0.6	1
80	Response to comment on “A biomechanical model of artery buckling” and subsequent comments. Journal of Biomechanics, 2010, 43, 2864.	0.9	0
81	FSI Modeling of Prosthetic Mitral Valve Dynamics and Left Ventricular Flow during Diastole. , 2013, , .		0
82	Finite element analysis of the dynamic behavior of radially polarized Functionally Graded Piezoelectric (FGP) structures. , 2016, , .		0
83	Fatigue modeling in percutaneous caval valved stents. Procedia Engineering, 2017, 214, 98-106.	1.2	0
84	A Benchmark Study of Modeling Lamb Wave Scattering by a Through Hole Using a Time-Domain Spectral Element Method. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 2018, 1, 021006-021006-8.	0.7	0
85	A Validated Finite Element Model of Intertrochanteric Fractures with Inhomogeneous Material Properties Extracted From CT Images. Procedia CIRP, 2020, 89, 194-200.	1.0	0
86	Nonlinear Finite Element Analysis of Balloon Sinuplasty. IFMBE Proceedings, 2009, , 2552-2555.	0.2	0
87	Impact analysis of shoes using the structural intensity technique. IFMBE Proceedings, 2009, , 2081-2084.	0.2	0
88	Mechanical Performance Study of Vascular Stent Using Computational Modeling and Simulation. IFMBE Proceedings, 2010, , 1443-1446.	0.2	0
89	Computational Modeling of a Novel Mitral Valve Stent. , 2012, , .		0
90	Has Percutaneous Aortic Valve Replacement Taken Center Stage in the Treatment of Aortic Valve Disease?. Critical Reviews in Biomedical Engineering, 2013, 41, 405-424.	0.5	0

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91	DESIGN AND DEVELOPMENT OF MEDICAL DEVICES USING MODELING AND SIMULATIONS. , 2015, , 11-12.		0
92	Interrogation of Lamb wave interaction with changing bonding condition in adhesive bonded joint. Proceedings of Meetings on Acoustics, 2017, , .	0.3	0
93	Interrogation of Linear/nonlinear Features of Guided Waves for Characterizing Hypervelocity Impact-induced Pitting Damage in Shielding Structures. , 0, , .		0
94	Characterization of Surface-Breaking Cracks on Tubular Structures Using Ultrasonic Phased Array with Rayleigh Waves. International Journal of Computational Methods, 0, , .	0.8	0