

Kon-Well Wang

List of Publications by Year in descending order

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61
papers

3,167
citations

185998

28
h-index

149479

56
g-index

61
all docs

61
docs citations

61
times ranked

2103
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of the recent research on vibration energy harvesting via bistable systems. <i>Smart Materials and Structures</i> , 2013, 22, 023001.	1.8	1,001
2	Programmable Self-Locking Origami Mechanical Metamaterials. <i>Advanced Materials</i> , 2018, 30, e1706311.	11.1	200
3	Architected Origami Materials: How Folding Creates Sophisticated Mechanical Properties. <i>Advanced Materials</i> , 2019, 31, e1805282.	11.1	171
4	Origami-based earthworm-like locomotion robots. <i>Bioinspiration and Biomimetics</i> , 2017, 12, 065003.	1.5	96
5	Fluidic origami with embedded pressure dependent multi-stability: a plant inspired innovation. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20150639.	1.5	87
6	Dynamics of a bistable Miura-origami structure. <i>Physical Review E</i> , 2017, 95, 052211.	0.8	87
7	Nonlinear-elastic finite axisymmetric deformation of flexible matrix composite membranes under internal pressure and axial force. <i>Composites Science and Technology</i> , 2006, 66, 3053-3063.	3.8	85
8	Concise and high-fidelity predictive criteria for maximizing performance and robustness of bistable energy harvesters. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	80
9	Damage detection via electrical impedance tomography in glass fiber/epoxy laminates with carbon black filler. <i>Structural Health Monitoring</i> , 2015, 14, 100-109.	4.3	71
10	Fluidic origami: a plant-inspired adaptive structure with shape morphing and stiffness tuning. <i>Smart Materials and Structures</i> , 2015, 24, 105031.	1.8	66
11	Dynamics of Kresling origami deployment. <i>Physical Review E</i> , 2020, 101, 063003.	0.8	66
12	Energy Harvester Synthesis Via Coupled Linear-Bistable System With Multistable Dynamics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014, 81, .	1.1	61
13	An arbitrary strains carbon nanotube composite piezoresistivity model for finite element integration. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	60
14	Metastable modular metastructures for on-demand reconfiguration of band structures and nonreciprocal wave propagation. <i>Physical Review E</i> , 2018, 97, 022209.	0.8	59
15	Recoverable and Programmable Collapse from Folding Pressurized Origami Cellular Solids. <i>Physical Review Letters</i> , 2016, 117, 114301.	2.9	55
16	Uncovering the deformation mechanisms of origami metamaterials by introducing generic degree-four vertices. <i>Physical Review E</i> , 2016, 94, 043002.	0.8	49
17	Self-locking degree-4 vertex origami structures. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20160682.	1.0	47
18	A comprehensive study on the locomotion characteristics of a metameric earthworm-like robot. <i>Multibody System Dynamics</i> , 2015, 35, 153-177.	1.7	46

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19	Reconfigurable origami sonic barriers with tunable bandgaps for traffic noise mitigation. <i>Journal of Applied Physics</i> , 2017, 122, .	1.1	44
20	Lattice reconfiguration and phononic band-gap adaptation via origami folding. <i>Physical Review B</i> , 2017, 95, .	1.1	42
21	Uncovering rotational multifunctionalities of coupled Kresling modular structures. <i>Extreme Mechanics Letters</i> , 2020, 39, 100795.	2.0	40
22	Prospects for Nonlinear Energy Harvesting Systems Designed Near the Elastic Stability Limit When Driven by Colored Noise. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2014, 136, .	1.0	39
23	Vibration Analysis of Composite Beams With End Effects via the Formal Asymptotic Method. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2010, 132, .	1.0	37
24	Designing and Harnessing the Metastable States of a Modular Metastructure for Programmable Mechanical Properties Adaptation. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2016, 138, .	1.7	37
25	A Disturbance Cancellation Perspective on Vibration Control Using a Bistable Snap-Through Attachment. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2014, 136, .	1.0	36
26	Magneto-origami structures: engineering multi-stability and dynamics via magnetic-elastic coupling. <i>Smart Materials and Structures</i> , 2020, 29, 015026.	1.8	33
27	Robust sensing methodology for detecting change with bistable circuitry dynamics tailoring. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	30
28	Osmosis-Based Pressure Generation: Dynamics and Application. <i>PLoS ONE</i> , 2014, 9, e91350.	1.1	29
29	Damage and strain identification in multifunctional materials via electrical impedance tomography with constrained sine wave solutions. <i>Structural Health Monitoring</i> , 2016, 15, 235-244.	4.3	29
30	Localization of a breathing crack using nonlinear subharmonic response signals. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	28
31	A comprehensive study on the locomotion characteristics of a metamerie earthworm-like robot. <i>Multibody System Dynamics</i> , 2015, 34, 391-413.	1.7	27
32	Axial Suspension Compliance and Compression for Enhancing Performance of a Nonlinear Vibration Energy Harvesting Beam System. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2016, 138, .	1.0	27
33	Planar locomotion of earthworm-like metamerie robots. <i>International Journal of Robotics Research</i> , 2019, 38, 1751-1774.	5.8	27
34	Advances of Surface Control Methodologies for Flexible Space Reflectors. <i>Journal of Spacecraft and Rockets</i> , 2013, 50, 816-828.	1.3	26
35	Adaptation of Energy Dissipation in a Mechanical Metastable Module Excited Near Resonance. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2016, 138, .	1.0	24
36	Dipteran wing motor-inspired flapping flight versatility and effectiveness enhancement. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141367.	1.5	20

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37	A novel origami mechanical metamaterial based on Miura-variant designs: exceptional multistability and shape reconfigurability. <i>Smart Materials and Structures</i> , 2021, 30, 085029.	1.8	17
38	Enhanced imaging of piezoresistive nanocomposites through the incorporation of nonlocal conductivity changes in electrical impedance tomography. <i>Journal of Intelligent Material Systems and Structures</i> , 2018, 29, 1850-1861.	1.4	16
39	Electromechanical impedance-based damage identification enhancement using bistable and adaptive piezoelectric circuitry. <i>Structural Health Monitoring</i> , 2019, 18, 1268-1281.	4.3	14
40	Excitation-Induced Stability in a Bistable Duffing Oscillator: Analysis and Experiments. <i>Journal of Computational and Nonlinear Dynamics</i> , 2015, 10, .	0.7	12
41	Broadband Frequency and Spatial On-Demand Tailoring of Topological Wave Propagation Harnessing Piezoelectric Metamaterials. <i>Frontiers in Materials</i> , 2021, 7, .	1.2	12
42	Fluidic Flexible Matrix Composites for the Tailoring of Variable Stiffness Adaptive Structures. , 2007, , .		11
43	Enhancing Structural Damage Identification Robustness to Noise and Damping With Integrated Bistable and Adaptive Piezoelectric Circuitry. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2015, 137, .	1.0	11
44	A parameter identification method for continuous-time nonlinear systems and its realization on a Miura-origami structure. <i>Mechanical Systems and Signal Processing</i> , 2018, 108, 369-386.	4.4	11
45	Modular and programmable material systems drawing from the architecture of skeletal muscle. <i>Physical Review E</i> , 2018, 98, .	0.8	11
46	Origami lattices and folding-induced lattice transformations. <i>Physical Review Research</i> , 2019, 1, .	1.3	11
47	Enhanced control performance of a piezoelectric-hydraulic pump actuator for automotive transmission shift control. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2010, 224, 161-174.	1.1	10
48	Predicting non-stationary and stochastic activation of saddle-node bifurcation in non-smooth dynamical systems. <i>Nonlinear Dynamics</i> , 2018, 93, 251-258.	2.7	10
49	Origami inspired phononic structure with metamaterial inclusions for tunable angular wave steering. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	10
50	Architectural Synthesis and Analysis of Dual-Cellular Fluidic Flexible Matrix Composites for Multifunctional Metastructures. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2015, 137, .	1.7	8
51	Online Signal Denoising Using Adaptive Stochastic Resonance in Parallel Array and Its Application to Acoustic Emission Signals. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2022, 144, .	1.0	7
52	Predicting Non-Stationary and Stochastic Activation of Saddle-Node Bifurcation. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017, 12, .	0.7	6
53	Emergence of bilayer-locked states and synthesis of elastic wave networks in a programmable 3D topological metamaterial. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	6
54	On the Nonlinear Snap-Through of Arch-Shaped Clamped-Clamped Bistable Beams. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	1.1	5

#	ARTICLE	IF	CITATIONS
55	Harnessing intrinsic localized modes to identify impurities in nonlinear periodic systems. Journal of Applied Physics, 2015, 117, .	1.1	4
56	Dispersion analysis of a two-dimensional metastable metastructure considering damping and nonlinear effects. Journal of Applied Physics, 2021, 129, .	1.1	4
57	Uncertainty Quantification Using Generalized Polynomial Chaos for Online Simulations of Automotive Propulsion Systems*. , 2020, , .		3
58	Deployment Dynamics of Miura Origami Sheets. Journal of Computational and Nonlinear Dynamics, 2022, 17, .	0.7	3
59	A Polynomial-Chaos-Based Multifidelity Approach to the Efficient Uncertainty Quantification of Online Simulations of Automotive Propulsion Systems. Journal of Computational and Nonlinear Dynamics, 2022, , .	0.7	2
60	Triple-Cell Origami Structure for Multistable Transition Sequences. , 2020, , .		1
61	1A11 A bio-inspired bistable flapping thrust mechanism with flexible suspension(The 12th International Tj ETQq1 1 0.784314 rgBT /Ove Vibration Control, 2014, 2014.12, _1A11-1_-_1A11-10_.	0.0	0