

Kon-Well Wang

List of Publications by Year in Descending Order

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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.

56

papers

2,191

citations

25

h-index

46

g-index

61

ext. papers

2,718

ext. citations

3.8

avg, IF

5.83

L-index

#	Paper	IF	Citations
56	Emergence of bilayer-locked states and synthesis of elastic wave networks in a programmable 3D topological metamaterial. <i>Applied Physics Letters</i> , 2022 , 120, 221703	3.4	
55	Dispersion analysis of a two-dimensional metastable metastructure considering damping and nonlinear effects. <i>Journal of Applied Physics</i> , 2021 , 129, 114902	2.5	0
54	Origami inspired phononic structure with metamaterial inclusions for tunable angular wave steering. <i>Journal of Applied Physics</i> , 2021 , 129, 145103	2.5	3
53	Broadband Frequency and Spatial On-Demand Tailoring of Topological Wave Propagation Harnessing Piezoelectric Metamaterials. <i>Frontiers in Materials</i> , 2021 , 7,	4	3
52	A novel origami mechanical metamaterial based on Miura-variant designs: exceptional multistability and shape reconfigurability. <i>Smart Materials and Structures</i> , 2021 , 30, 085029	3.4	7
51	Uncovering rotational multifunctionalities of coupled Kresling modular structures. <i>Extreme Mechanics Letters</i> , 2020 , 39, 100795	3.9	12
50	Dynamics of Kresling origami deployment. <i>Physical Review E</i> , 2020 , 101, 063003	2.4	25
49	Magneto-origami structures: engineering multi-stability and dynamics via magnetic-elastic coupling. <i>Smart Materials and Structures</i> , 2020 , 29, 015026	3.4	18
48	Electromechanical impedance-based damage identification enhancement using bistable and adaptive piezoelectric circuitry. <i>Structural Health Monitoring</i> , 2019 , 18, 1268-1281	4.4	7
47	Planar locomotion of earthworm-like metameric robots. <i>International Journal of Robotics Research</i> , 2019 , 38, 1751-1774	5.7	8
46	Origami lattices and folding-induced lattice transformations. <i>Physical Review Research</i> , 2019 , 1,	3.9	8
45	Architected Origami Materials: How Folding Creates Sophisticated Mechanical Properties. <i>Advanced Materials</i> , 2019 , 31, e1805282	24	88
44	Programmable Self-Locking Origami Mechanical Metamaterials. <i>Advanced Materials</i> , 2018 , 30, e170631124		107
43	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	2.3	13
42	Metastable modular metastructures for on-demand reconfiguration of band structures and nonreciprocal wave propagation. <i>Physical Review E</i> , 2018 , 97, 022209	2.4	37
41	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	7.8	6
40	Predicting non-stationary and stochastic activation of saddle-node bifurcation in non-smooth dynamical systems. <i>Nonlinear Dynamics</i> , 2018 , 93, 251-258	5	8

39	Modular and programmable material systems drawing from the architecture of skeletal muscle. <i>Physical Review E</i> , 2018 , 98,	2.4	8
38	Lattice reconfiguration and phononic band-gap adaptation via origami folding. <i>Physical Review B</i> , 2017 , 95,	3.3	32
37	Predicting Non-Stationary and Stochastic Activation of Saddle-Node Bifurcation. <i>Journal of Computational and Nonlinear Dynamics</i> , 2017 , 12,	1.4	5
36	Reconfigurable origami sonic barriers with tunable bandgaps for traffic noise mitigation. <i>Journal of Applied Physics</i> , 2017 , 122, 154901	2.5	28
35	Origami-based earthworm-like locomotion robots. <i>Bioinspiration and Biomimetics</i> , 2017 , 12, 065003	2.6	58
34	Dynamics of a bistable Miura-origami structure. <i>Physical Review E</i> , 2017 , 95, 052211	2.4	54
33	Self-locking degree-4 vertex origami structures. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160682	2.4	32
32	Uncovering the deformation mechanisms of origami metamaterials by introducing generic degree-four vertices. <i>Physical Review E</i> , 2016 , 94, 043002	2.4	34
31	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,	1.6	21
30	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,	1.6	22
29	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,	3	27
28	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	4.4	22
27	Recoverable and Programmable Collapse from Folding Pressurized Origami Cellular Solids. <i>Physical Review Letters</i> , 2016 , 117, 114301	7.4	44
26	A comprehensive study on the locomotion characteristics of a metameric earthworm-like robot. <i>Multibody System Dynamics</i> , 2015 , 35, 153-177	2.8	29
25	Harnessing intrinsic localized modes to identify impurities in nonlinear periodic systems. <i>Journal of Applied Physics</i> , 2015 , 117, 074505	2.5	2
24	A comprehensive study on the locomotion characteristics of a metameric earthworm-like robot. <i>Multibody System Dynamics</i> , 2015 , 34, 391-413	2.8	15
23	Fluidic origami with embedded pressure dependent multi-stability: a plant inspired innovation. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20150639	4.1	62
22	Damage detection via electrical impedance tomography in glass fiber/epoxy laminates with carbon black filler. <i>Structural Health Monitoring</i> , 2015 , 14, 100-109	4.4	57

21	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,	3	5
20	Fluidic origami: a plant-inspired adaptive structure with shape morphing and stiffness tuning. <i>Smart Materials and Structures</i> , 2015 , 24, 105031	3-4	42
19	Excitation-Induced Stability in a Bistable Duffing Oscillator: Analysis and Experiments. <i>Journal of Computational and Nonlinear Dynamics</i> , 2015 , 10,	1-4	11
18	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,	1-6	6
17	Dipteran wing motor-inspired flapping flight versatility and effectiveness enhancement. <i>Journal of the Royal Society Interface</i> , 2015 , 12, 20141367	4-1	12
16	Osmosis-based pressure generation: dynamics and application. <i>PLoS ONE</i> , 2014 , 9, e91350	3-7	21
15	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,	1-6	21
14	Energy Harvester Synthesis Via Coupled Linear-Bistable System With Multistable Dynamics. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2014 , 81,	2-7	52
13	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,	1-6	31
12	1A11 A bio-inspired bistable flapping thrust mechanism with flexible suspension(The 12th International Conference on Motion and Vibration Control). <i>The Proceedings of the Symposium on the Motion and Vibration Control</i> , 2014 , 2014.12, _1A11-1_ - _1A11-10_	0	
11	Concise and high-fidelity predictive criteria for maximizing performance and robustness of bistable energy harvesters. <i>Applied Physics Letters</i> , 2013 , 102, 053903	3-4	71
10	A review of the recent research on vibration energy harvesting via bistable systems. <i>Smart Materials and Structures</i> , 2013 , 22, 023001	3-4	776
9	Advances of Surface Control Methodologies for Flexible Space Reflectors. <i>Journal of Spacecraft and Rockets</i> , 2013 , 50, 816-828	1-5	21
8	An arbitrary strains carbon nanotube composite piezoresistivity model for finite element integration. <i>Applied Physics Letters</i> , 2013 , 102, 011909	3-4	49
7	Robust sensing methodology for detecting change with bistable circuitry dynamics tailoring. <i>Applied Physics Letters</i> , 2013 , 102, 203506	3-4	26
6	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	1-4	5
5	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,	1-6	28
4	Localization of a breathing crack using nonlinear subharmonic response signals. <i>Applied Physics Letters</i> , 2009 , 95, 254101	3-4	25

3	Fluidic Flexible Matrix Composites for the Tailoring of Variable Stiffness Adaptive Structures 2007 ,		9
2	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	8.6	75
1	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> ,1-34	1.6	1