Daewon Kim

List of Publications by Year
in descending order

44 papers	158 citations	1478280 6 h-index	1281743 11 g-index
45 all docs	45 docs citations	45 times ranked	153 citing authors

#	Article	IF	Citations
1	Magnetorheological Fluid Filled Spring for Variable Stiffness and Damping: Current and Potential Performance. Frontiers in Materials, 2022, 9, .	1.2	0
2	Piezoelectric strain sensor through reverse replication based on two-photon polymerization. , 2022, , .		1
3	Additive manufacturing of flexible nanocomposite SAW sensor for strain detection. , 2021, , .		0
4	On the electrode-elastomer patterns in dielectric elastomer actuator motion. , 2021, , .		1
5	Effects of Ferroelectric Fillers on Composite Dielectric Elastomer Actuator. Actuators, 2021, 10, 137.	1.2	11
6	Microstructural Design of Graphene Nanocomposites for Improved Electrical Conductivity. Journal of Engineering Materials and Technology, Transactions of the ASME, 2021, 143, .	0.8	0
7	Surface Acoustic Wave-Based Flexible Piezocomposite Strain Sensor. Crystals, 2021, 11, 1576.	1.0	9
8	Stochastic Percolation Network Model for Hybrid Nanocomposites. , 2020, , .		0
9	Piezoresistive nanocomposites for sensing MMOD impact damage in inflatable space structures. Composites Communications, 2020, 21, 100375.	3.3	6
10	Synergy effect in hybrid nanocomposites based on carbon nanotubes and graphene nanoplatelets. Nanotechnology, 2020, 31, 255704.	1.3	27
11	Multifunctional inkjet printed sensors for MMOD impact detection. Smart Materials and Structures, 2020, 29, 085052.	1.8	7
12	Soft and printable electrodes for flexible elastomer actuators. , 2020, , .		3
13	Strain sensing using flexible surface acoustic wave sensor. , 2020, , .		1
14	Stochastic percolation model for the effect of nanotube agglomeration on the conductivity and piezoresistivity of hybrid nanocomposites. Computational Materials Science, 2019, 166, 9-19.	1.4	23
15	Numerical and Experimental Investigation of the Sensitivity of Carbon Nanotube and Graphene Nanocomposites to MMOD Impact Damage for Inflatable Structures. , 2019, , .		2
16	Design Optimization of Hybrid FRP/RC Bridge. Applied Composite Materials, 2019, 26, 249-270.	1.3	6
17	A dynamic model of helical dielectric elastomer actuator. , 2019, , .		1
18	Force optimization and numerical validation of helical dielectric elastomer actuator. , 2019, , .		1

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19	Numerical studies on origami dielectric elastomer actuator using Kresling pattern. , 2019, , .		0
20	Development of a flexible piezocomposites surface acoustic wave sensor. , 2019, , .		1
21	Dynamic Control of a Novel Magnetorheological Fluid Damper for a Small Spacecraft with Flexible Appendages. , 2018, , .		3
22	Comparison of 3D and 2D Monte Carlo Models for Piezoresistive Behavior of Hybrid Nanocomposites. , 2018, , .		2
23	Monte Carlo Model for Piezoresistivity of Hybrid Nanocomposites. Journal of Engineering Materials and Technology, Transactions of the ASME, 2018, 140, .	0.8	23
24	Numerical and experimental investigation of matrix effect on sensing behavior of piezoresistive hybrid nanocomposites. , 2018, , .		1
25	Optimization of helical dielectric elastomer actuator with additive manufacturing. , 2018, , .		0
26	Numerical and Experimental Investigation of the Piezoresistive Behavior of Hybrid Carbon Nanotube Sheet - Graphene Nanocomposites. , 2017, , .		2
27	Rapid Heat Generation using Carbon Nanotubes. , 2017, , .		0
28	Analytical approach on the stiffness of MR fluid filled spring. Proceedings of SPIE, 2017, , .	0.8	1
29	Numerical analysis of helical dielectric elastomer actuator. Proceedings of SPIE, 2017, , .	0.8	1
30	Dynamic piezoresistive response of hybrid nanocomposites. Proceedings of SPIE, 2017, , .	0.8	2
31	Design and demonstration of a flexible matrix composite morphing control surface for air gap control in a Fowler flap. Journal of Intelligent Material Systems and Structures, 2017, 28, 3139-3151.	1.4	4
32	Preliminary Wing Study of General Aviation Aircraft with Stitched Composite Panels. Journal of Aircraft, 2017, 54, 704-715.	1.7	2
33	Structural health monitoring of inflatable structures for MMOD impacts. , 2017, , .		1
34	Finite Element Modeling of Macro-Fiber Composite Actuators for Wing De-Icing Applications. International Journal of Control and Automation, 2017, 10, 283-304.	0.3	1
35	Artificial feel system using magneto-rheological fluid on aircraft control stick. , 2016, , .		0
36	Analytical approach on the performance of helical dielectric elastomer actuator. Proceedings of SPIE, 2016, , .	0.8	0

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37	Preliminary Wing Study of General Aviation Aircraft with PRSEUS panels. , 2016, , .		0
38	Slosh Damping with Floating Electroactive Microbaffles. , 2014, , .		2
39	Fatigue damage prognosis using affine arithmetic. , 2014, , .		0
40	Development, analysis, and comparison of electromechanical properties of Bucky paper IPMC actuator. , 2014, , .		0
41	Design, characterization, and testing of macro-fiber composite actuators for integration on a fixed-wing UAV. Proceedings of SPIE, 2014, , .	0.8	4
42	Phased Array Beamsteering in Composite Laminates for Guided Wave Structural Health Monitoring. , 2013, , .		4
43	Effects of Rapid Change in Temperature on Ultrasonic Guided Lamb Wave Propagation. , 2013, , .		1
44	Morphing Trailing Edge Control Using Flexible Matrix Composite Actuators. , 2012, , .		4