

Karla M Mossi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6704474/publications.pdf>

Version: 2024-02-01

43
papers

833
citations

686830

13
h-index

676716

22
g-index

43
all docs

43
docs citations

43
times ranked

681
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of various leg geometries on thermo-mechanical and power generation performance of thermoelectric devices. Applied Thermal Engineering, 2014, 73, 128-141.	3.0	127
2	Thin-layer composite unimorph ferroelectric driver and sensor properties. Materials Letters, 1998, 35, 39-49.	1.3	101
3	Influence of leg sizing and spacing on power generation and thermal stresses of thermoelectric devices. Applied Energy, 2015, 159, 19-27.	5.1	78
4	Cyclic energy harvesting from pyroelectric materials. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2011, 58, 10-17.	1.7	76
5	Performance of Thin Piezoelectric Materials for Pyroelectric Energy Harvesting. Journal of Intelligent Material Systems and Structures, 2010, 21, 243-249.	1.4	63
6	Harvesting Energy Using a Thin Unimorph Prestressed Bender: Geometrical Effects. Journal of Intelligent Material Systems and Structures, 2005, 16, 249-261.	1.4	49
7	Piezoelectric Actuators as Synthetic Jets: Cavity Dimension Effects. Journal of Intelligent Material Systems and Structures, 2007, 18, 1175-1190.	1.4	45
8	Production of inhalable submicrometer aerosols from conventional mesh nebulizers for improved respiratory drug delivery. Journal of Aerosol Science, 2012, 51, 66-80.	1.8	34
9	<title>Characterization of different types of high-performance THUNDER actuators</title>. , 1999, 3675, 43.		28
10	Low-field and high-field characterization of THUNDER actuators. , 2001, , .		23
11	Thermoelectric devices with rotated and coaxial leg configurations: Numerical analysis of performance. Applied Thermal Engineering, 2015, 85, 304-312.	3.0	23
12	Experimental analysis of radiation heat-based energy harvesting through pyroelectricity. Journal of Intelligent Material Systems and Structures, 2014, 25, 1838-1849.	1.4	19
13	Shape modeling and validation of stress-biased piezoelectric actuators. Smart Materials and Structures, 2006, 15, 1785-1793.	1.8	17
14	Prestressed curved actuators: characterization and modeling of their piezoelectric behavior. , 2003, 5053, 423.		15
15	Experimental design and analysis for piezoelectric circular actuators in flow control applications. Smart Materials and Structures, 2008, 17, 015013.	1.8	15
16	Vibration Viscosity Sensor for Engine Oil Monitoring Using Metal Matrix Piezoelectric Composite. Materials, 2019, 12, 3415.	1.3	15
17	Modeling aspects concerning THUNDER actuators. , 1999, , .		14
18	PIEZOELECTRIC COMPOSITES AS BENDER ACTUATORS. Integrated Ferroelectrics, 2005, 71, 221-232.	0.3	13

#	ARTICLE	IF	CITATIONS
19	Velocity Profiles for Synthetic Jets Using Piezoelectric Circular Actuators. , 2005, , .		10
20	Evaluation criteria for THUNDER actuators. , 1999, , .		9
21	Synthetic jets with piezoelectric diaphragms. , 2005, 5761, 233.		6
22	BOUNDARY CONDITION EFFECTS ON PIEZO-SYNTHETIC JETS. Integrated Ferroelectrics, 2005, 71, 257-266.	0.3	6
23	A Feasibility Investigation on Improving Structural Integrity of Thermoelectric Modules With Varying Geometry. , 2012, , .		6
24	Electrospun polystyrene coatings with tunable wettability. Journal of Applied Polymer Science, 2015, 132, .	1.3	6
25	Piezoelectric Actuators for Synthetic Jet Applications. Materials Research Society Symposia Proceedings, 2003, 785, 1181.	0.1	5
26	Optimizing energy harvesting parameters using response surface methodology. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 429-436.	1.7	4
27	Characterization of a Pt-core PZT fiber/Al matrix composite. Proceedings of SPIE, 2010, , .	0.8	4
28	Non-Destructive Evaluation Device for Monitoring Fluid Viscosity. Sensors, 2020, 20, 1657.	2.1	4
29	Experimental development of power consumption in LIPCA-C2. , 2007, , .		3
30	Energy Scavenging Combining Piezoelectric and Pyroelectric Effects. , 2010, , .		3
31	Modeling of Low Frequency Multi-Source Energy Harvesting Systems. , 2011, , .		3
32	A simple method to characterize the impedance of pyroelectric materials at ultra-low frequencies. Journal of Intelligent Material Systems and Structures, 2017, 28, 143-153.	1.4	3
33	Hysteresis characterization using charge feedback control for a LIPCA device. , 2006, , .		2
34	Scavenging Energy From Piezoelectric Materials for Wireless Sensor Applications. , 2005, , 93.		1
35	Pressure Loading of Piezo Composite Unimorphs. Materials Research Society Symposia Proceedings, 2005, 888, 1.	0.1	1
36	Studying the effects of temperature on energy harvesting using pre-stressed piezoelectric diaphragms. , 2007, , .		1

#	ARTICLE	IF	CITATIONS
37	Feasibility of Using Piezoelectric Probes to Measure Viscosity in Newtonian Fluids. , 2010, , .		1
38	Characterization of loaded prestressed piezoelectric actuators. , 2003, 5053, 453.		0
39	Piezoelectric behavior of pre-stressed curved actuators under load. , 2004, , .		0
40	Improved Adjusting Capacitor Method for Piezoelectric Frequency Tuning and Maximum Energy Harvesting. , 2014, , .		0
41	Adhesive characterization in prestressed piezoelectric laminates. , 2003, , .		0
42	Experimental Design and Analysis of Bimorphs as Synthetic Jet Diaphragms. , 2006, , .		0
43	K0401 Recent advances in piezo-composites and related technologies. The Reference Collection of Annual Meeting, 2010, 2010.9, 57-58.	0.0	0