

Karla M Mossi

List of Publications by Year in descending order

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43
papers

833
citations

686830

13
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676716

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g-index

43
all docs

43
docs citations

43
times ranked

681
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Destructive Evaluation Device for Monitoring Fluid Viscosity. <i>Sensors</i> , 2020, 20, 1657.	2.1	4
2	Vibration Viscosity Sensor for Engine Oil Monitoring Using Metal Matrix Piezoelectric Composite. <i>Materials</i> , 2019, 12, 3415.	1.3	15
3	A simple method to characterize the impedance of pyroelectric materials at ultra-low frequencies. <i>Journal of Intelligent Material Systems and Structures</i> , 2017, 28, 143-153.	1.4	3
4	Thermoelectric devices with rotated and coaxial leg configurations: Numerical analysis of performance. <i>Applied Thermal Engineering</i> , 2015, 85, 304-312.	3.0	23
5	Electrospun polystyrene coatings with tunable wettability. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	6
6	Influence of leg sizing and spacing on power generation and thermal stresses of thermoelectric devices. <i>Applied Energy</i> , 2015, 159, 19-27.	5.1	78
7	Experimental analysis of radiation heat-based energy harvesting through pyroelectricity. <i>Journal of Intelligent Material Systems and Structures</i> , 2014, 25, 1838-1849.	1.4	19
8	Effect of various leg geometries on thermo-mechanical and power generation performance of thermoelectric devices. <i>Applied Thermal Engineering</i> , 2014, 73, 128-141.	3.0	127
9	Improved Adjusting Capacitor Method for Piezoelectric Frequency Tuning and Maximum Energy Harvesting. , 2014, , .		0
10	A Feasibility Investigation on Improving Structural Integrity of Thermoelectric Modules With Varying Geometry. , 2012, , .		6
11	Production of inhalable submicrometer aerosols from conventional mesh nebulizers for improved respiratory drug delivery. <i>Journal of Aerosol Science</i> , 2012, 51, 66-80.	1.8	34
12	Cyclic energy harvesting from pyroelectric materials. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011, 58, 10-17.	1.7	76
13	Modeling of Low Frequency Multi-Source Energy Harvesting Systems. , 2011, , .		3
14	Feasibility of Using Piezoelectric Probes to Measure Viscosity in Newtonian Fluids. , 2010, , .		1
15	Energy Scavenging Combining Piezoelectric and Pyroelectric Effects. , 2010, , .		3
16	Performance of Thin Piezoelectric Materials for Pyroelectric Energy Harvesting. <i>Journal of Intelligent Material Systems and Structures</i> , 2010, 21, 243-249.	1.4	63
17	Characterization of a Pt-core PZT fiber/Al matrix composite. <i>Proceedings of SPIE</i> , 2010, , .	0.8	4
18	K0401 Recent advances in piezo-composites and related technologies. <i>The Reference Collection of Annual Meeting</i> , 2010, 2010.9, 57-58.	0.0	0

#	ARTICLE	IF	CITATIONS
19	Optimizing energy harvesting parameters using response surface methodology. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2009, 56, 429-436.	1.7	4
20	Experimental design and analysis for piezoelectric circular actuators in flow control applications. Smart Materials and Structures, 2008, 17, 015013.	1.8	15
21	Piezoelectric Actuators as Synthetic Jets: Cavity Dimension Effects. Journal of Intelligent Material Systems and Structures, 2007, 18, 1175-1190.	1.4	45
22	Studying the effects of temperature on energy harvesting using pre-stressed piezoelectric diaphragms. , 2007, , .		1
23	Experimental development of power consumption in LIPCA-C2. , 2007, , .		3
24	Hysteresis characterization using charge feedback control for a LIPCA device. , 2006, , .		2
25	Shape modeling and validation of stress-biased piezoelectric actuators. Smart Materials and Structures, 2006, 15, 1785-1793.	1.8	17
26	Experimental Design and Analysis of Bimorphs as Synthetic Jet Diaphragms. , 2006, , .		0
27	Synthetic jets with piezoelectric diaphragms. , 2005, 5761, 233.		6
28	Scavenging Energy From Piezoelectric Materials for Wireless Sensor Applications. , 2005, , 93.		1
29	PIEZOELECTRIC COMPOSITES AS BENDER ACTUATORS. Integrated Ferroelectrics, 2005, 71, 221-232.	0.3	13
30	Pressure Loading of Piezo Composite Unimorphs. Materials Research Society Symposia Proceedings, 2005, 888, 1.	0.1	1
31	Harvesting Energy Using a Thin Unimorph Prestressed Bender: Geometrical Effects. Journal of Intelligent Material Systems and Structures, 2005, 16, 249-261.	1.4	49
32	BOUNDARY CONDITION EFFECTS ON PIEZO-SYNTHETIC JETS. Integrated Ferroelectrics, 2005, 71, 257-266.	0.3	6
33	Velocity Profiles for Synthetic Jets Using Piezoelectric Circular Actuators. , 2005, , .		10
34	Piezoelectric behavior of pre-stressed curved actuators under load. , 2004, , .		0
35	Piezoelectric Actuators for Synthetic Jet Applications. Materials Research Society Symposia Proceedings, 2003, 785, 1181.	0.1	5
36	Prestressed curved actuators: characterization and modeling of their piezoelectric behavior. , 2003, 5053, 423.		15

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37	Characterization of loaded prestressed piezoelectric actuators. , 2003, 5053, 453.		0
38	Adhesive characterization in prestressed piezoelectric laminates. , 2003, , .		0
39	Low-field and high-field characterization of THUNDER actuators. , 2001, , .		23
40	Evaluation criteria for THUNDER actuators. , 1999, , .		9
41	Modeling aspects concerning THUNDER actuators. , 1999, , .		14
42	<title>Characterization of different types of high-performance THUNDER actuators</title>. , 1999, 3675, 43.		28
43	Thin-layer composite unimorph ferroelectric driver and sensor properties. Materials Letters, 1998, 35, 39-49.	1.3	101