Josephine Ruth

List of Publications by Year
in descending order

22 papers	188 citations	1163117 8 h-index	1125743 13 g-index
23 all docs	23 docs citations	23 times ranked	143 citing authors

#	Article	IF	Citations
1	Differential resistance feedback control of a self-sensing shape memory alloy actuated system. ISA Transactions, 2014, 53, 289-297.	5.7	26
2	Shape memory alloy wire for self-sensing servo actuation. Mechanical Systems and Signal Processing, 2017, 83, 36-52.	8.0	25
3	Bidirectional angular control of an integrated sensor/actuator shape memory alloy based system. Measurement: Journal of the International Measurement Confederation, 2015, 69, 210-221.	5.0	23
4	Fuzzy based sliding surface for shape memory alloy wire actuated classical super-articulated control system. Applied Soft Computing Journal, 2015, 32, 580-589.	7.2	16
5	Control Aspects of Shape Memory Alloys in Robotics Applications: A Review over the Last Decade. Sensors, 2022, 22, 4860.	3.8	15
6	Shape memory alloy with bi-functionality in the master system to control a slave. Sensors and Actuators A: Physical, 2016, 238, 351-360.	4.1	13
7	Interrogation of Undersensing for an Underactuated Dynamical System. IEEE Sensors Journal, 2015, 15, 2203-2211.	4.7	11
8	Design based Active Vibration Control of a flexible structure using shape memory alloy wire actuators. , 2012, , .		9
9	Dynamic stabilization and rapid motion control system driven by antagonistic shape memory alloy actuators. JVC/Journal of Vibration and Control, 2015, 21, 3189-3204.	2.6	9
10	Design of a variable stiffness actuator using shape memory alloy wire. , 2016, , .		7
11	Effect of stress on bandwidth of antagonistic shape memory alloy actuators. Journal of Intelligent Material Systems and Structures, 2016, 27, 153-165.	2.5	7
12	Angular trajectory tracking using antagonistic shape memory alloy actuators. , 2012, , .		6
13	Investigation of functional characteristics of a synergistically configured parallel-type shape memory alloy variable stiffness actuator. Journal of Intelligent Material Systems and Structures, 2019, 30, 1772-1788.	2.5	4
14	AUTO-ADAPTIVE CONTROL OF A ONE-JOINT ARM DIRECT DRIVEN BY ANTAGONISTIC SHAPE MEMORY ALLOY. International Journal on Smart Sensing and Intelligent Systems, 2013, 6, 833-849.	0.7	4
15	Tunable spatial heterodyne spectroscopy (TSHS): a new technique for broadband visible interferometry. , 2010, , .		3
16	An investigation on the stiffness variation in a synergistically configured SMA actuator. , 2016, , .		3
17	Role of Shape Memory Alloy Wires as a SENSAPTIC HMI Device. IEEE Sensors Journal, 2020, 20, 6422-6431.	4.7	3
18	Servo control of an under actuated system using antagonistic shape memory alloy. Smart Structures and Systems, 2014, 14, 643-658.	1.9	2

#	Article	IF	Citations
19	Design Concepts for NiTiNOL Wires to Function as a Sensor. , 2021, 6, 523.		1
20	Auto-sensing antagonistic shape memory alloy actuated manipulator. , 2013, , .		0
21	Design and characterization of a piston type linear SMA actuator. , 2016, , .		0
22	A Sensaptic ADAS Device Using Shape Memory Alloy Wires: Design and Control. Materials, 2021, 14, 3494.	2.9	0