Mohamed Sultan Mohamed Ali

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Micro-scale energy harvesting devices: Review of methodological performances in the last decade. Renewable and Sustainable Energy Reviews, 2016, 54, 1035-1047.	8.2	184
2	Inorganic thermoelectric materials: A review. International Journal of Energy Research, 2020, 44, 6170-6222.	2.2	119
3	Soft dielectric elastomer actuator micropump. Sensors and Actuators A: Physical, 2017, 263, 276-284.	2.0	83
4	MEMS Gas Sensors: A Review. IEEE Sensors Journal, 2021, 21, 18381-18397.	2.4	75
5	Development of a shape-memory-alloy micromanipulator based on integrated bimorph microactuators. Mechatronics, 2016, 38, 16-28.	2.0	58
6	Wireless powered thermo-pneumatic micropump using frequency-controlled heater. Sensors and Actuators A: Physical, 2015, 233, 1-8.	2.0	56
7	Micromachined Shape-Memory-Alloy Microactuators and Their Application in Biomedical Devices. Micromachines, 2015, 6, 879-901.	1.4	55
8	MEMS actuators for biomedical applications: a review. Journal of Micromechanics and Microengineering, 2020, 30, 073001.	1.5	54
9	Review on recent advances in 4D printing of shape memory polymers. European Polymer Journal, 2021, 159, 110708.	2.6	51
10	Energy Harvesters for Wearable Electronics and Biomedical Devices. Advanced Materials Technologies, 2021, 6, 2000771.	3.0	49
11	RF MEMS Inductors and Their Applications—A Review. Journal of Microelectromechanical Systems, 2017, 26, 17-44.	1.7	44
12	Methodological reviews and analyses on the emerging research trends and progresses of thermoelectric generators. International Journal of Energy Research, 2019, 43, 113-140.	2.2	44
13	High-aspect-ratio, free-form patterning of carbon nanotube forests using micro-electro-discharge machining. Diamond and Related Materials, 2010, 19, 1405-1410.	1.8	43
14	A wirelessly-controlled piezoelectric microvalve for regulated drug delivery. Sensors and Actuators A: Physical, 2018, 279, 191-203.	2.0	43
15	Thermoelectric Generator: Materials and Applications in Wearable Health Monitoring Sensors and Internet of Things Devices. Advanced Materials Technologies, 2022, 7, .	3.0	42
16	State-of-the-Art Reviews and Analyses of Emerging Research Findings and Achievements of Thermoelectric Materials over the Past Years. Journal of Electronic Materials, 2019, 48, 745-777.	1.0	39
17	Transforming carbon nanotube forest from darkest absorber to reflective mirror. Applied Physics Letters, 2012, 101, 061913.	1.5	37
18	Inductive antenna stent: design, fabrication and characterization. Journal of Micromechanics and Microengineering, 2013, 23, 025015.	1.5	32

Mohamed Sultan Mohamed

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19	A multi-segmented shape memory alloy-based actuator system for endoscopic applications. Sensors and Actuators A: Physical, 2019, 296, 92-100.	2.0	31
20	Thermal analysis of wirelessly powered thermo-pneumatic micropump based on planar LC circuit. Journal of Mechanical Science and Technology, 2016, 30, 2659-2665.	0.7	29
21	Radio-Controlled Microactuator Based on Shape-Memory-Alloy Spiral-Coil Inductor. Journal of Microelectromechanical Systems, 2013, 22, 331-338.	1.7	23
22	Design and fabrication of a novel XYÎ,z monolithic micro-positioning stage driven by NiTi shape-memory-alloy actuators. Smart Materials and Structures, 2016, 25, 105004.	1.8	23
23	Thermomechanical behavior of bulk NiTi shape-memory-alloy microactuators based on bimorph actuation. Microsystem Technologies, 2016, 22, 2125-2131.	1.2	23
24	Highâ€power MEMS switch enabled by carbonâ€nanotube contact and shapeâ€memoryâ€alloy actuator. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 631-638.	0.8	20
25	PDMS-based dual-channel pneumatic micro-actuator. Smart Materials and Structures, 2019, 28, 115044.	1.8	16
26	Frequency-Controlled Wireless Passive Thermopneumatic Micromixer. Journal of Microelectromechanical Systems, 2017, 26, 691-703.	1.7	14
27	The effects of the silicon wafer resistivity on the performance of microelectrical discharge machining. International Journal of Advanced Manufacturing Technology, 2018, 95, 257-266.	1.5	13
28	Planar Variable Inductor Controlled by Ferrofluid Actuation. IEEE Transactions on Magnetics, 2013, 49, 1402-1406.	1.2	12
29	Wireless Displacement Sensing of Micromachined Spiral-Coil Actuator Using Resonant Frequency Tracking. Sensors, 2014, 14, 12399-12409.	2.1	12
30	Radio aneurysm coils for noninvasive detection of cerebral embolization failures: A preliminary study. Biosensors and Bioelectronics, 2011, 30, 300-305.	5.3	11
31	Copper–Nickel and Copper–Cobalt Thermoelectric Generators: Power-Generating Optimization through Structural Geometrics. IEEE Transactions on Electron Devices, 2018, 65, 3394-3400.	1.6	11
32	Development of 4D-printed shape memory polymer large-stroke XY micropositioning stages. Journal of Micromechanics and Microengineering, 2022, 32, 065006.	1.5	11
33	Piezoresistive strain sensing using carbon nanotube forests suspended by Parylene-C membranes. Applied Physics Letters, 2012, 100, 213510.	1.5	10
34	Non-Invasive Treatment for Coronary In-Stent Restenosis via Wireless Revascularization With Nitinol Active Stent. IEEE Transactions on Biomedical Engineering, 2021, 68, 3681-3689.	2.5	10
35	Effect of laser parameters on sequential laser beam micromachining and micro electro-discharge machining. International Journal of Advanced Manufacturing Technology, 2021, 114, 709-723.	1.5	10
36	Copper–Cobalt Thermoelectric Generators: Power Improvement Through Optimized Thickness and Sandwiched Planar Structure. IEEE Transactions on Electron Devices, 2019, 66, 3459-3465.	1.6	9

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37	Wearable thermoelectric generator with vertically aligned PEDOT:PSS and carbon nanotubes thermoelements for energy harvesting. International Journal of Energy Research, 2022, 46, 15824-15836.	2.2	9
38	A recoil resilient lumen support, design, fabrication and mechanical evaluation. Journal of Micromechanics and Microengineering, 2013, 23, 065001.	1.5	6
39	Analysis of Thermomechanical Behavior of Shape-Memory-Alloy Bimorph Microactuator. , 2014, , .		6
40	Wireless Valving for Centrifugal Microfluidic Disc. Journal of Microelectromechanical Systems, 2017, 26, 1327-1334.	1.7	6
41	Hybrid PSO-Tuned PID and Hysteresis-Observer Based Control for Piezoelectric Micropositioning Stages. , 2019, , .		6
42	Micromachined Shape Memory Alloy Active Stent with Wireless Monitoring and Re-Expansion Features. , 2020, , .		6
43	Advanced Nanoscale Surface Characterization of CuO Nanoflowers for Significant Enhancement of Catalytic Properties. Molecules, 2021, 26, 2700.	1.7	6
44	Silicon nanowire arrays thermoelectric power harvester. , 2017, , .		5
45	Design, fabrication, and characterization of lateral-structured Cu-Ni thermoelectric devices. , 2018, , .		5
46	Development of 4D Printed PLA Actuators with an Induced Internal Strain Upon Printing. , 2021, , .		5
47	Non-traditional machining techniques for silicon wafers. International Journal of Advanced Manufacturing Technology, 2022, 121, 29-57.	1.5	5
48	Development of Miniature Stewart Platform Using TiNiCu Shape-Memory-Alloy Actuators. Advances in Materials Science and Engineering, 2015, 2015, 1-9.	1.0	4
49	PDMS-based Dual-Channel Pneumatic Microactuator Using Sacrificial Molding Fabrication Technique. , 2019, , .		4
50	Geometrical Analysis of Diffuser-Nozzle Elements for Valveless Micropumps. , 2019, , .		4
51	Heat-assisted μ-electrical discharge machining of silicon. International Journal of Advanced Manufacturing Technology, 2021, 113, 1727-1738.	1.5	4
52	Enhancement of spin Seebeck effect of reverse spin crossover Fe (II) micellar charge transport using PMMA polymer electrolyte. Applied Organometallic Chemistry, 2021, 35, e6268.	1.7	4
53	Dual-stage artificial neural network (ANN) model for sequential LBMM-μEDM-based micro-drilling. International Journal of Advanced Manufacturing Technology, 2021, 117, 3343-3365.	1.5	4
54	Investigation of Si-based thermoelectrochemical cells (TECs) towards semiconductor fabrication and processing. Semiconductor Science and Technology, 2021, 36, 115006.	1.0	4

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55	Miniature parallel manipulator using TiNiCu shape-memory-alloy microactuators. , 2015, , .		3
56	Modeling and Simulation of a Wireless Passive Thermopneumatic Micromixer. Communications in Computer and Information Science, 2017, , 312-322.	0.4	3
57	Characterization of heat flow in silicon nanowire arrays for efficient thermoelectric power harvesting. Experimental Heat Transfer, 2018, 31, 470-481.	2.3	3
58	Variable stiffness 4D printing. , 2022, , 407-433.		3
59	Analysis of micropatterned wireless resonant heaters for wireless-control of MEMS thermal actuators. Microsystem Technologies, 2014, 20, 235-241.	1.2	2
60	Modelling and simulation of magnesium antimonide based thermoelectric generator. Indonesian Journal of Electrical Engineering and Computer Science, 2020, 19, 686.	0.7	2
61	A stainless-steel-based capacitive pressure sensor chip and its microwelding integration. , 2015, , .		1
62	Simulation Study of Two-Phase Fluid 3D Imaging Using Lab-on-Chip ECT. , 2019, , .		1
63	Microelectrical discharge machining of silicon wafers. , 2021, , 219-244.		1
64	Electrical discharge machining for the formation of bulk-shape memory alloy actuators. , 2021, , 195-217.		1
65	Design of Inductor-Capacitor Circuits for Wireless Power Transfer for Biomedical Applications. Advances in Intelligent Systems and Computing, 2021, , 81-90.	0.5	0
66	Finite Element Analysis of Thermoelectric Power Generation from Human Wrist. , 2021, , .		0
67	Structural Optimization of a Bismuth Telluride-Based Thermoelectric Generator Using Finite Element Analysis. , 2021, , .		0