

# Marwan Nafea

## List of Publications by Year in descending order

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45  
papers

636  
citations

687363

13  
h-index

642732

23  
g-index

46  
all docs

46  
docs citations

46  
times ranked

455  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a shape-memory-alloy micromanipulator based on integrated bimorph microactuators. <i>Mechatronics</i> , 2016, 38, 16-28.	3.3	58
2	Wireless powered thermo-pneumatic micropump using frequency-controlled heater. <i>Sensors and Actuators A: Physical</i> , 2015, 233, 1-8.	4.1	56
3	MEMS actuators for biomedical applications: a review. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 073001.	2.6	54
4	Review on recent advances in 4D printing of shape memory polymers. <i>European Polymer Journal</i> , 2021, 159, 110708.	5.4	51
5	A wirelessly-controlled piezoelectric microvalve for regulated drug delivery. <i>Sensors and Actuators A: Physical</i> , 2018, 279, 191-203.	4.1	43
6	Thermoelectric Generator: Materials and Applications in Wearable Health Monitoring Sensors and Internet of Things Devices. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	42
7	A multi-segmented shape memory alloy-based actuator system for endoscopic applications. <i>Sensors and Actuators A: Physical</i> , 2019, 296, 92-100.	4.1	31
8	Isolation of Fetal ECG Signals from Abdominal ECG Using Wavelet Analysis. <i>Irbm</i> , 2020, 41, 252-260.	5.6	30
9	Thermal analysis of wirelessly powered thermo-pneumatic micropump based on planar LC circuit. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 2659-2665.	1.5	29
10	Design and fabrication of a novel XYZ monolithic micro-positioning stage driven by NiTi shape-memory-alloy actuators. <i>Smart Materials and Structures</i> , 2016, 25, 105004.	3.5	23
11	Thermomechanical behavior of bulk NiTi shape-memory-alloy microactuators based on bimorph actuation. <i>Microsystem Technologies</i> , 2016, 22, 2125-2131.	2.0	23
12	Brainwave-Controlled System for Smart Home Applications. , 2018, , .		17
13	PDMS-based dual-channel pneumatic micro-actuator. <i>Smart Materials and Structures</i> , 2019, 28, 115044.	3.5	16
14	Frequency-Controlled Wireless Passive Thermopneumatic Micromixer. <i>Journal of Microelectromechanical Systems</i> , 2017, 26, 691-703.	2.5	14
15	Development of 4D-printed shape memory polymer large-stroke XY micropositioning stages. <i>Journal of Micromechanics and Microengineering</i> , 2022, 32, 065006.	2.6	11
16	Techno-economic analysis of direct combustion and gasification systems for off-grid energy supply: A case for organic rankine cycle and dual fluidized-bed. <i>IET Renewable Power Generation</i> , 2021, 15, 2596-2614.	3.1	10
17	Metamodel-based Optimization of a PID Controller Parameters for a Coupled-tank System. <i>Telkomnika (Telecommunication Computing Electronics and Control)</i> , 2018, 16, 1590.	0.8	10
18	Dynamic Hysteresis Based Modeling Of Piezoelectric Actuators. <i>Jurnal Teknologi (Sciences and)</i> Tj ETQq0 0 0 rgBT /Overlock 1,0 Tf 50 62	0.4	7

#	ARTICLE	IF	CITATIONS
19	A hybrid control approach for precise positioning of a piezo-actuated stage. , 2014, , .		7
20	Selective wireless control of a passive thermopneumatic micromixer. , 2016, , .		7
21	Performance Comparison of Pre-trained Residual Networks for Classification of the Whole Mammograms with Smaller Dataset. , 2020, , .		7
22	Development of a 4D-Printed PLA Microgripper. , 2021, , .		7
23	Hybrid PSO-Tuned PID and Hysteresis-Observer Based Control for Piezoelectric Micropositioning Stages. , 2019, , .		6
24	Energy Efficient Elliptical Concave Visibility Graph Algorithm for Unmanned Aerial Vehicle in an Obstacle-rich Environment. , 2020, , .		6
25	PSO-Based SEIQRD Modeling and Forecasting of COVID-19 Spread in Italy. , 2021, , .		6
26	Hybrid Hysteresis-Inversion and PSO-Tuned PID Control for Piezoelectric Micropositioning Stages. , 2020, , .		6
27	Development of 4D Printed PLA Actuators with an Induced Internal Strain Upon Printing. , 2021, , .		5
28	COMPUTATIONALLY EFFICIENT PATH PLANNING ALGORITHM FOR AUTONOMOUS VEHICLE. Jurnal Teknologi (Sciences and Engineering), 2020, 83, 133-143.	0.4	5
29	Joule Heating Activation of 4D Printed Conductive PLA Actuators. , 2022, , .		5
30	Resonant Control of a Single-Link Flexible Manipulator. Jurnal Teknologi (Sciences and Engineering), 2014, 67, .	0.4	4
31	PDMS-based Dual-Channel Pneumatic Microactuator Using Sacrificial Molding Fabrication Technique. , 2019, , .		4
32	Geometrical Analysis of Diffuser-Nozzle Elements for Valveless Micropumps. , 2019, , .		4
33	Heat-assisted $\hat{1}/4$ -electrical discharge machining of silicon. International Journal of Advanced Manufacturing Technology, 2021, 113, 1727-1738.	3.0	4
34	Modeling and simulation of a wirelessly-powered thermopneumatic micropump for drug delivery applications. Indonesian Journal of Electrical Engineering and Informatics, 2019, 7, .	0.3	4
35	Fetal ECG Extraction Using Savitzky-Golay and Butterworth Filters. , 2022, , .		4
36	Modeling and Simulation of a Wireless Passive Thermopneumatic Micromixer. Communications in Computer and Information Science, 2017, , 312-322.	0.5	3

#	ARTICLE	IF	CITATIONS
37	Development of Biomass-fueled Cogeneration Systems for Off-grid Electrification. , 2020, , .		3
38	Fetal ECG Extraction from Abdominal ECG Using Chebyshev and Butterworth Filters. , 2021, , .		3
39	Variable stiffness 4D printing. , 2022, , 407-433.		3
40	Detecting Sensor Coordination in a Calibrated Lightning Locating System. , 2019, , .		2
41	Racer: A Simulated Environment Driving Simulator to Investigate Human Driving Skill. Communications in Computer and Information Science, 2017, , 534-547.	0.5	2
42	A Study on the Effect of Electrical Parameters of Zero-Dimensional Cardiovascular System on Aortic Waveform. , 2020, , .		2
43	Modeling and simulation of a wirelessly-powered thermopneumatic micropump for drug delivery applications. Indonesian Journal of Electrical Engineering and Informatics, 2019, 7, .	0.3	1
44	Design of Inductor-Capacitor Circuits for Wireless Power Transfer for Biomedical Applications. Advances in Intelligent Systems and Computing, 2021, , 81-90.	0.6	0
45	Wearable Thermoelectric Generator with Vertically Aligned PEDOT: PSS Thermoelements. SSRN Electronic Journal, 0, , .	0.4	0