Umar Shahbaz Khan

List of Publications by Year
in descending order

22 papers	265 citations	1039880 9 h-index	1058333 14 g-index
22 all docs	22 docs citations	22 times ranked	233 citing authors

#	Article	IF	Citations
1	LASSO Homotopy-Based Sparse Representation Classification for fNIRS-BCI. Sensors, 2022, 22, 2575.	2.1	7
2	Analyzing Classification Performance of fNIRS-BCI for Gait Rehabilitation Using Deep Neural Networks. Sensors, 2022, 22, 1932.	2.1	22
3	Advancements, Trends and Future Prospects of Lower Limb Prosthesis. IEEE Access, 2021, 9, 85956-85977.	2.6	22
4	Energy Storage for Energy Security and Reliability through Renewable Energy Technologies: A New Paradigm for Energy Policies in Turkey and Pakistan. Sustainability, 2021, 13, 2823.	1.6	7
5	EMG Based Control of Transhumeral Prosthesis Using Machine Learning Algorithms. International Journal of Control, Automation and Systems, 2021, 19, 3522-3532.	1.6	15
6	Enhancing Classification Accuracy of Transhumeral Prosthesis: A Hybrid sEMG and fNIRS Approach. IEEE Access, 2021, 9, 113246-113257.	2.6	7
7	Microfabrication Process-Driven Design, FEM Analysis and System Modeling of 3-DoF Drive Mode and 2-DoF Sense Mode Thermally Stable Non-Resonant MEMS Gyroscope. Micromachines, 2020, 11, 862.	1.4	13
8	Enhancing Classification Performance of fNIRS-BCI by Identifying Cortically Active Channels Using the z-Score Method. Sensors, 2020, 20, 6995.	2.1	15
9	Enhancing classification accuracy of fNIRS-BCI using features acquired from vector-based phase analysis. Journal of Neural Engineering, 2020, 17, 056025.	1.8	36
10	Design, closed-form modeling and analysis of SU-8 based electrothermal microgripper for biomedical applications. Microsystem Technologies, 2019, 25, 1171-1184.	1.2	11
11	Automated greenhouse system. , 2019, , .		4
12	Formal Verification and Development of an Autonomous Firefighting Robotic Model. , 2019, , .		1
13	A Review of Application of Deep Learning for Weeds and Crops Classification in Agriculture. , 2019, , .		12
14	Design and Analysis of a High-Gain and Robust Multi-DOF Electro-thermally Actuated MEMS Gyroscope. Micromachines, 2018, 9, 577.	1.4	17
15	Efficient FIR Filter Implementations for Multichannel BCIs Using Xilinx System Generator. BioMed Research International, 2018, 2018, 1-9.	0.9	6
16	Design of Embedded System for Multivariate Classification of Finger and Thumb Movements Using EEG Signals for Control of Upper Limb Prosthesis. BioMed Research International, 2018, 2018, 1-11.	0.9	14
17	Multi-Response Optimization of Electrothermal Micromirror Using Desirability Function-Based Response Surface Methodology. Micromachines, 2017, 8, 107.	1.4	7
18	Fatigue testing of MEMS device developed by MetalMUMPs fabrication process. , 2016, , .		0

#	Article	IF	Citations
19	3-D Shape Recovery from Image Focus Using Rank Transform. Lecture Notes in Computer Science, 2016, , 514-523.	1.0	0
20	Optimized circuit for EMG signal processing. , 2012, , .		13
21	Design of non-conventional chain drive mechanism for a mini-robot. , 2012, , .		5
22	Background removal from GPR data using Eigenvalues. , 2010, , .		31