

Theme 2-4: Neuroengineering - 2023

Title	Authors	Scopus Source title	Source type
Mental Stress Management Us+A3:D3ing fNIRS Directed Connectivity and Audio Stimulation	Katmah, R. Al-Shargie, F. Tariq, U. Babiloni, F. Al-Mughairbi, F. Al-Nashash, H.	IEEE Transactions on Neural Systems and Rehabilitation Engineering	Article
Modified carbon dots for potential flexible electrode applications	Ali, A.A. Al-Sayah, M.H. Al-Othman, A. Al-Nashash, H.	International IEEE/EMBS Conference on Neural Engineering, NER	Conference Paper
A Flexible Conductive Electrode Using Boronic-Acid Modified Carbon Dots	Ali, A.A. Al-Sayah, M.H. Al-Othman, A. Al-Nashash, H.	Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS	Conference Paper
Assessment of Mental Stress during 240-Days Isolation and Confined Environment using EEG Signals	Al-Shargie, F. Al-Ameri, S. Al-Hammadi, A. Vladimirova, S.D. Tariq, U. Al-Nashash, H.	International IEEE/EMBS Conference on Neural Engineering, NER	Conference Paper
Mental Stress Assessment in the Workplace: A Review	Masri, G. Al-Shargie, F. Tariq, U. Almughairbi, F. Babiloni, F. Al-Nashash, H.	IEEE Transactions on Affective Computing	Article
Mxene/Polydimethylsiloxane (PDMS) Based Implantable and Flexible Bioelectrodes for Neural Sensing	Baz Khan, K.R. Al-Othman, A. Al-Nashash, H. Al-Sayah, M.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Paper
Classification of Mental Stress Levels using EEG Connectivity and Convolutional Neural Networks	Al-Shargie, F. Badr, Y. Tariq, U. Babiloni, F. Al-Mughairbi, F. Al-Nashash, H.	Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS	Conference Paper
Detection of Astronaut's Stress Levels during 240-Day Confinement using EEG Signals and Machine Learning	Al-Shargie, F. Al-Ameri, S. Al-Hammadi, A. Vladimirova, S.D. Tariq, U. Al-Nashash, H.	Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS	Conference Paper
Nano-clay-Based Flexible Bio-electrode for Neural Sensing Applications	Hamed, F. Alani, Z. Al-Othman, A. Al-Nashash, H. Al-Sayah, M.H.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Paper
Carbon dot-doped PDMS composites for flexible electrode applications	Ali, A.A. Al-Sayah, M.H. Al-Othman, A. Al-Nashash, H.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Paper
Classification of Mental Stress using Dry EEG Electrodes and Machine Learning	Badr, Y. Al-Shargie, F. Tariq, U. Babiloni, F. Al-Mughairbi, F. Al-Nashash, H.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Paper
Mental Stress Assessment Using Low in Cost Single Channel EEG System	Kader, L.A. Yahya, F. Tariq, U. Al-Nashash, H.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Paper
Mental Stress Detection and Mitigation using Machine Learning and Binaural Beat Stimulation	Badr, Y. Al-Shargie, F. Tariq, U. Babiloni, F. Al-Mughairbi, F. Al-Nashash, H.	Proceedings of the Annual International Conference of the IEEE Engineering in Medicine and Biology Society, EMBS	Conference Paper
Flexible PDMS Composite Electrodes with Boronic Acid-Modified Carbon Dots for Surface Electrophysiological Signal Recording	Ali, A.A. Al-Sayah, M.H. Al-Othman, A. Al-Nashash, H.	ACS Applied Electronic Materials	Article
Exploring Neurophysiological Responses to Cross-Cultural Deepfake Videos	Khan, M.R. Naeem, S. Tariq, U. Dhail, A. Khan, M.N.A. Al-Shargie, F. Al-Nashash, H.	ACM International Conference Proceeding Series	Conference Paper
Nano-clay-Based Flexible Bio-electrode for Neural Sensing Applications	Hamed, F. Alani, Z. Al-Othman, A. Al-Nashash, H. Al-Sayah, M.H.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Proceeding
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Carbon dot-doped PDMS composites for flexible electrode applications	Ali, A.A. Al-Sayah, M.H. Al-Othman, A. Al-Nashash, H.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Proceeding
A Comparative Analysis of Numerical Methods for Solving the Leaky Integrate and Fire Neuron Model	Masri, G.E. Ali, A. Abuwatfa, W.H. Mortula, M. Hussein, G.A.	Mathematics	Journal