

Theme 6-3: Sustainability of Environmental and Chemical Processes - 2023

Title	Authors	Scopus Source title	Source type
Smart Gas Sensors: Materials, Technologies, Practical Applications, and Use of Machine Learning – A Review	Mahmood, L. Ghommem, M. Bahroun, Z.	Journal of Applied and Computational Mechanics	Journal
Current status of CO2 capture with ionic liquids: Development and progress	Faisal Elmobarak, W. Almomani, F. Tawalbeh, M. Al-Othman, A. Martis, R. Rasool, K.	Fuel	Journal
Recent Developments on the Performance of Algal Bioreactors for CO2 Removal: Focusing on the Light Intensity and Photoperiods	Shareefdeen, Z. Elkamel, A. Babar, Z.B.	BioTech	Journal
Unlocking the potential of CO2 hydrogenation into valuable products using noble metal catalysts: A comprehensive review	Tawalbeh, M. Javed, R.M.N. Al-Othman, A. Almomani, F. Ajith, S.	Environmental Technology and Innovation	Journal
Effect of Climate Change on Air Quality: A Nigerian Perspective	Yusuf, M. Khan, H.W. Beg, M. Ekeoma, B.C. Nishat, A. Al-Othman, A.L.	Springer Climate	Book Series
Desulfurization of Diesel Using Ionic Liquids: Process Design and Optimization Using COSMO-Based Models and Aspen Plus	Ben Salah, H. Nancarrow, P. Al Othman, A.	ACS Omega	Journal
Optimization techniques for electrochemical devices for hydrogen production and energy storage applications	Tawalbeh, M. Farooq, A. Martis, R. Al-Othman, A.	International Journal of Hydrogen Energy	Journal
Purifying of Biogas Produced from Anaerobic Digestions Processes: An Economical Assessment	Yusuf, N. Almomani, F. Tawalbeh, M. Al-Othman, A.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Proceeding
Economic Analysis of Upfront Nitrogen Removal from LNG Plant	Mkacher, H. Almomani, F. Tawalbeh, M. Al-Othman, A.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Proceeding
Global warming potential, water footprint, and energy demand of shared autonomous electric vehicles incorporating circular economy practices	Ahmed, A.A. Nazzal, M.A. Darras, B.M. Deiab, I.M.	Sustainable Production and Consumption	Journal