

Theme 6-2: Renewable Energy and Power Systems - 2023

Title	Authors	Scopus Source title	Source type
EV Traction System's Battery Thermal Analysis using Fuzzy Logic and PI Controller	Ahmed, S. Rizwan, A. Ataallah, F. Rehman, H. Mukhopadhyay, S. Dhaouadi, R.	Proceedings of the International Conference on Optimisation of Electrical and Electronic Equipment, OPTIM	Conference Paper
Numerical Modeling of Dust Deposition Rate on Ground-Mounted Solar Photovoltaic Panels	Kaiss, E.-C.A. Hassan, N.M.	Journal of Solar Energy Engineering, Transactions of the ASME	Journal
Multi-Fidelity Modeling and Reliability Analysis of Off-Shore Production Wells	Hamdan, B. Wang, P.	Proceedings - Annual Reliability and Maintainability Symposium	Conference Proceeding
Multi-Fidelity Bayesian Learning for Offshore Production Well Reliability Analysis	Hamdan, B. Wang, P.	Applied Mathematical Modeling	Journal
Approaches towards the development of heteropolyacid-based high temperature membranes for PEM fuel cells	Nimir, W. Al-Othman, A. Tawalbeh, M. Al Makky, A. Ali, A. Karimi-Maleh, H. Karimi, F. Karaman, C.	International Journal of Hydrogen Energy	Journal
Analysis for hybrid photovoltaic/solar chimney seawater desalination plant: A CFD simulation in Sharjah, United Arab Emirates	Tawalbeh, M. Mohammed, S. Alnaqbi, A. Alshehhi, S. Al-Othman, A.	Renewable Energy	Journal
Insights on the applications of metal oxide nanosheets in energy storage systems	Tawalbeh, M. Khan, H.A. Al-Othman, A.	Journal of Energy Storage	Journal
A comprehensive review on the recent advances in materials for thermal energy storage applications	Tawalbeh, M. Khan, H.A. Al-Othman, A. Almomani, F. Ajith, S.	International Journal of Thermofluids	Journal
Air emissions in waste to energy (W2E) plants	Shareefdeen, Z. Mishu, A.A.	Clean Technologies and Environmental Policy	Journal
Salinity gradient solar ponds hybrid systems for power generation and water desalination	Tawalbeh, M. Javed, R.M.N. Al-Othman, A. Almomani, F.	Energy Conversion and Management	Journal
Emerging technologies in prognostics for fuel cells including direct hydrocarbon fuel cells	Ong, S. Al-Othman, A. Tawalbeh, M.	Energy	Journal
New insights on applications of quantum dots in fuel cell and electrochemical systems	Al Murisi, M. Tawalbeh, M. Al-Saadi, R. Yasin, Z. Temsah, O. Al-Othman, A. Rezakazemi, M. Olabi, A.G.	International Journal of Hydrogen Energy	Journal
Novel and flexible asymmetric supercapacitors based on NiCo2O4 nanosheets coated on Al and Cu tapes for wearable devices applications	Alshanableh, A. Albiss, B.A. Aljawrneh, B. Alrousan, S. Al-Othman, A. Megdadi, H.	SN Applied Sciences	Journal
Strach/Chitosan Membranes for PEM Fuel Cells Applications	Al-Othman, A. Tawalbeh, M. Ka'ki, A. Mohamad, S. Hassan, M.F. Almomani, F.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Proceeding
Novel Chitosan-Based Composite Membranes for Fuel Cells Applications	Tawalbeh, M. Al-Othman, A. Hassan, M.F. Ka'ki, A. Mohamad, S. Almomani, F.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Proceeding
Nickel-cobalt oxide nanosheets asymmetric supercapacitor for energy storage applications	Alrousan, S. Albiss, B. Aljawrneh, B. Alshanableh, A. Al-Othman, A. Megdadi, H.	Journal of Materials Science: Materials in Electronics	Journal
Proton Conductivity Studies on Covalent Organic Frameworks (COFs) for The Application of High-Temperature Fuel Cells	Al-Othman, A. Tawalbeh, M. El-Kadri, O. Mohamad, S. Ka'ki, A. Almomani, F.	2023 Advances in Science and Engineering Technology International Conferences, ASET 2023	Conference Proceeding
Review of hydrogen-gasoline SI dual fuel engines: Engine performance and emission	Purayil, S.T.P. Hamdan, M.O. Al-Omari, S.A.B. Selim, M.Y.E. Elnajjar, E.	Energy Reports	Journal
A comparison of oscillating sweeping jet and steady normal jet in cooling gas turbine leading edge: Numerical analysis	Khan, M.S. Hamdan, M.O. Al-Omari, S.A.B. Elnajjar, E.	International Journal of Heat and Mass Transfer	Journal
ANALYSIS OF PLATE-FIN HEAT SINK INFUSED WITH PHASE CHANGE MATERIALS FOR INTERMITTENT SPACE MISSIONS	Azzam, M. Hamdan, M.O. Alkhader, M. Gerner, F.M.	Journal of Enhanced Heat Transfer	Journal
Numerical Analysis and Experimental Validation of the Jet Impingement Cooling of a Turbine-Blade Leading Edge at Different Rotation Speeds	Elnajjar, E. Safi, A. Hamdan, M.O. Al Omari, SAB. Khan, MS.	International Journal of Thermofluids	Journal
A NUMERICAL ANALYSIS INVESTIGATION TO OPTIMIZE THE PERFORMANCE OF THE RANQUE-HILSCH VORTEX TUBE by CHANGING THE INTERNAL TAPERING ANGLE	Sungur, M. Elnajjar, E. Hamdan, M.O. Al Omari, SAB.	International Journal of Thermofluids	Journal