

Theme 6-2: Renewable Energy and Power Systems - 2021

Title	Authors	Scopus Source title	Volume	Issue	Pages	Source type	Publication type	Open Access
Optimization of energy consumption in cloud computing datacenters	Osman, A. Sagahyoon, A. Aburukba, R. Aloui, F.	International Journal of Electrical and Computer Engineering	11	1	686-698	Journal	Article	Gold Green
Enhanced proton conduction in zirconium phosphate/ionic liquids materials for high-temperature fuel cells	Mohammed, H. Al-Othman, A. Nancarrow, P. Elsayed, Y. Tawalbeh, M.	International Journal of Hydrogen Energy	46	6	4857-4869	Journal	Article	
Novel composite membrane based on zirconium phosphate-ionic liquids for high temperature PEM fuel cells	Al-Othman, A. Nancarrow, P. Tawalbeh, M. Ka'ki, A. El-Ahwal, K. El Taher, B. Alkasrawi, M.	International Journal of Hydrogen Energy	46	8	6100-6109	Journal	Article	
Characterization of paper mill sludge as a renewable feedstock for sustainable hydrogen and biofuels production	Tawalbeh, M. Rajangam, A.S. Salameh, T. Al-Othman, A. Alkasrawi, M.	International Journal of Hydrogen Energy	46	6	4761-4775	Journal	Article	Bronze
Synthesis and performance evaluation of various metal chalcogenides as active anodes for direct urea fuel cells	Sayed, E.T. Abdelkareem, M.A. Bahas, A. Elsa, T. Alawadhi, H. Al-Asheh, S. Chae, K.-J. Olabi, A.G.	Renewable and Sustainable Energy Reviews	150	-	-	Journal	Article	
Proton conduction of novel calcium phosphate nanocomposite membranes for high temperature PEM fuel cells applications	Ka'ki, A. Alraeesi, A. Al-Othman, A. Tawalbeh, M.	International Journal of Hydrogen Energy	46	59	30641-30657	Journal	Article	
A characterization study for the properties of dust particles collected on photovoltaic (PV) panels in Sharjah, United Arab Emirates	Dhaouadi, R. Al-Othman, A. Aidan, A.A. Tawalbeh, M. Zannerni, R.	Renewable Energy	171	-	133-140	Journal	Article	
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	Article	
A review of post-consumption food waste management and its potentials for biofuel production	Pour, F.H. Makkawi, Y.T.	Energy Reports	7	-	7759-7784	Journal	Review	Gold
Comprehensive analysis and correlation of ionic liquid conductivity data for energy applications	Nancarrow, P. Al-Othman, A. Mital, D.K. Döpking, S.	Energy	220	-	-	Journal	Article	
Fuel cells for carbon capture and power generation: Simulation studies	Martins, R. Al-Othman, A. Alkasrawi, M. Tawalbeh, M.	International Journal of Hydrogen Energy	46	8	6139-6149	Journal	Article	
A novel technique of paper mill sludge conversion to bioethanol toward sustainable energy production: Effect of fiber recovery on the saccharification hydrolysis and fermentation	Alkasrawi, M. Al-Othman, A. Tawalbeh, M. Doncan, S. Gurram, R. Singasas, E. Almomani, F. Al-Asheh, S.	Energy	223	-	-	Journal	Article	
Assessment of the pyrolysis products from halophyte <i>Salicornia bigelovii</i> cultivated in a desert environment	Makawi, Y. El-Sayed, Y. Lyra, D.-A. Pour, F.H. Khan, M. Badrelzaman, M.	Fuel	290	-	-	Journal	Article	
Electrolytes, Dyes, and Peroxskite Materials in Third Generation Photovoltaic Cells	Alashkar, A. Ibrahim, T. Khamis, M. Alami, A.H.	Encyclopedia of Smart Materials	-	-	621-634	Book	Chapter	
A characterization study for the properties of dust particles collected on photovoltaic (PV) panels in Sharjah, United Arab Emirates	Dhaouadi, R. Al-Othman, A. Aidan, A.A. Tawalbeh, M. Zannerni, R.	Renewable Energy	171	-	133-140	Journal	Article	
Experimental verification for improved phase-disposition PWM of three-phase five-level diode-clamped inverter	Suleiman, M. Elnady, A. Osman, A.	International Journal of Circuit Theory and Applications	49	6	1828-1848	Journal	Letter	
A novel stochastic dynamic modeling for photovoltaic systems considering dust and cleaning	Cheema, A. Shaaban, M.F. Ismail, M.H.	Applied Energy	300	-	-	Journal	Article	
Optimal Day-ahead Operation for a PV-based Battery Swapping Station for Electric Vehicles	Shalaby, A.A. Shaaban, M.F. Mokhtar, M. Zeineldin, H.H. El-Saadany, E.F.	Proceedings of the 2021 6th International Symposium on Environment-Friendly Energies and Applications, EFEA 2021	-	-	-	Conference Proceeding	Conference Paper	
A New Approach for Long-term Optimal Scheduling of Photovoltaic Panels Cleaning	Cheema, A. Shaaban, M.F. Ismail, M.H. Azzouz, M.A.	SIEMEN 2021 - Proceedings of the 11th International Conference on Electromechanical and Energy Systems	-	-	319-324	Conference Proceeding	Conference Paper	
Optimal Sizing and Placement of Multiple Photovoltaics Considering Electric Vehicles Charging Stations	Ali, A. Mahmoud, K. Shaaban, M.F. Lehtonen, M.	SIEMEN 2021 - Proceedings of the 11th International Conference on Electromechanical and Energy Systems	-	-	358-362	Conference Proceeding	Conference Paper	Green
Energy management of a multi-source power system	Salah, O. Shamyaleh, A. Mukhopadhyay, S.	Algorithms	14	7	-	Journal	Article	Gold