

Theme 3-1: Polymers and Composite Materials - 2022

Title	Authors	Scopus Source title	Volume	Issue	Pages	Publication type
A Critical Review on the Use of Ionic Liquids in Proton Exchange Membrane Fuel Cells	Alashkar, A. Al-Othman, A. Tawalbeh, M. Qasim, M.	Membranes	12	2	-	Review
Lignin/zirconium phosphate/ionic liquids-based proton conducting membranes for high-temperature PEM fuel cells applications	Tawalbeh, M. Al-Othman, A. Ka'ki, A. Farooq, A. Alkasrawi, M.	Energy	260	-	-	Article
Microwave synthesis of biochar for environmental applications	Shirvanimoghaddam, K. Czech, B. Abdikhebari, S. Brodie, G. Kończak, M. Krzyszczak, A. Al-Othman, A. Naebe, M.	Journal of Analytical and Applied Pyrolysis	161	-	-	Review
Proton Conductivity Studies in Zirconium Phosphate/MXenes in PEM Fuel Cells	Al-Othman, A. Hassan, M.F. Tawalbeh, M. Ka'ki, A.	2022 Advances in Science and Engineering Technology International Conferences, ASET 2022	-	-	-	Conference Paper
Zirconium silicate-ionic liquid membranes for high-temperature hydrogen PEM fuel cells	Nauman Javed, R.M. Al-Othman, A. Nancarrow, P. Tawalbeh, M.	International Journal of Hydrogen Energy	-	-	-	Article
Contribution of Longitudinal NSM-CFRP Bars on the Shear Strength of RC Beams with Varying Depths and Concrete Strengths	Hawileh, R.A. Saleh, R.B. Saqan, E.I. Abdalla, J.A.	Journal of Composites for Construction	26	3	-	Article
Adhesively Bonded FRP Composites for Strengthening of RC Structures: Recent Advances	Haghani, R. Yang, J. Hawileh, R. Abdullah, J. Al-Lami, K. Colombi, P. D'Antino, T.	Lecture Notes in Civil Engineering	198	-	1373-1384	Conference Paper
Tensile and compressive strength of polyethylene engineered cementitious composite (PE-ECC) at elevated temperature	Mahmoudi, F. Abdalla, J.A. Hawileh, R.A. Zhang, Z.	Materials Today: Proceedings	65	-	2081-2085	Article
An overview of mechanical properties of engineered cementitious composite (ECC) with different percentages of GGBS	Mahmoudi, F. Abdalla, J.A. Hawileh, R.A. Zhang, Z.	Materials Today: Proceedings	65	-	2077-2080	Article
Parametric study on the influence of material properties and geometry on the thermally induced bistability of composite laminates	Emam, S.A. Pherwani, T. Anil, A. Muhammed, A.	Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science	236	8	4194-4218	Article