

### Theme 3-7: Structures and Structural Materials - 2021

Title	Authors	Scopus Source title	Volume	Issue	Pages	Source type	Publication type	Open Access
Biomass ashes from agricultural wastes as supplementary cementitious materials or aggregate replacement in cement/geopolymer concrete: A comprehensive review	Thomas, B.S.   Yang, J.   Mo, K.H.   Abdalla, J.A.   Hawileh, R.A.   Aniyachandra, E.	Journal of Building Engineering	40	-	-	Journal	Review	
Sugarcane bagasse ash as supplementary cementitious material in concrete – a review	Thomas, B.S.   Yang, J.   Bahurudeen, A.   Abdalla, J.A.   Hawileh, R.A.   Hamada, H.M.   Nazar, S.   Jittin, V.   Ashish, D.K.	Materials Today Sustainability	15	-	-	Journal	Review	
Response of concrete columns reinforced with longitudinal and transverse BFRP bars under concentric and eccentric loading	ElMessalami, N.   Abed, F.   El Refai, A.	Composite Structures	255	-	-	Journal	Article	
Concrete Columns Reinforced with GFRP and BFRP Bars under Concentric and Eccentric Loads: Experimental Testing and Analytical Investigation	Elmesalami, N.   Abed, F.   Refai, A.E.	Journal of Composites for Construction	25	2	-	Journal	Article	
Sustainable use of palm oil fuel ash as a supplementary cementitious material: A comprehensive review	Hamada, H.M.   Thomas, B.S.   Yahaya, F.M.   Muthusamy, K.   Yang, J.   Abdalla, J.A.   Hawileh, R.A.	Journal of Building Engineering	40	-	-	Journal	Review	
Effect of recycled aggregates and treated wastewater on concrete subjected to different exposure conditions	Ahmed, S.   Alhoubi, Y.   Elmesalami, N.   Yehia, S.   Abed, F.	Construction and Building Materials	266	-	-	Journal	Article	
Punching Shear Behavior of Synthetic Fiber-Reinforced Self-Consolidating Concrete Flat Slabs with GFRP Bars	Alhamaydeh, M.   Orabi, M. Anwar	Journal of Composites for Construction	25	4	-	Journal	Article	
High strength flowable lightweight concrete incorporating low C3A cement, silica fume, stellite and macro-polyfello polymer fibres	Liu, H.   Elchalakani, M.   Karrech, A.   Yehia, S.   Yang, B.	Construction and Building Materials	281	-	-	Journal	Article	
Circular and square columns strengthened with FRCM under concentric load	Tello, N.   Alhoubi, Y.   Abed, F.   El Refai, A.   El-Maaddawy, T.	Composite Structures	255	-	-	Journal	Article	
Shear behavior of RC T-beams externally strengthened with anchored high modulus carbon fiber-reinforced polymer (CFRP) laminates	Mhanna, H.H.   Hawileh, R.A.   Abdalla, J.A.	Composite Structures	272	-	-	Journal	Article	
RC Columns Strengthened with NSM-CFRP Strips and CFRP Wraps under Axial and Uniaxial Bending: Experimental Investigation and Capacity Models	Abokwiek, R.   Abdalla, J.A.   Hawileh, R.A.   El Maaddawy, T.	Journal of Composites for Construction	25	2	-	Journal	Article	Hybrid gold
Performance of BFRP RC beams using high strength concrete	Abed, F.   Al-Mimar, M.   Ahmed, S.	Composites Part C: Open Access	4	-	-	Journal	Article	Gold
Experimental quantification of punching shear capacity for large-scale GFRP-reinforced flat slabs made of synthetic fiber-reinforced self-compacting concrete dataset	AlHamaydeh, M.   Orabi, M. Anwar	Data in Brief	37	-	-	Journal	Data Paper	Gold   Green
Data for interaction diagrams of geopolymer frc slender columns with double-layer gfrp and steel reinforcement	Alhamaydeh, M.   Amin, F.	Data	6	5	-	Journal	Article	Gold
Effect of different cross-sections and concrete types on the flexural behavior of CFSTs	Abed, F.   Abdelmageed, Y.   Alhoubi, Y.	Composite Structures	276	-	-	Journal	Article	
Strength curve data for slender geopolymer concrete columns with GFRP, steel and hybrid reinforcement	AlHamaydeh, M.   Amin, F.M.	Data in Brief	39	-	-	Journal	Data Paper	Gold   Green
Flexural strengthening of RC beams using aluminum alloy plates with mechanically-fastened anchorage systems: An experimental investigation	Abuodeh, O.R.   Abdalla, J.A.   Hawileh, R.A.	Engineering Structures	234	-	-	Journal	Article	
Durability of plain concrete prism strengthened with galvanized steel mesh and CFRP laminates under harsh environmental conditions	Ghous Sohail, M.   Al Nuaimi, N.   Hawileh, R.A.   Abdalla, J.A.   Douier, K.	Construction and Building Materials	286	-	-	Journal	Article	Hybrid gold
Shear Strengthening of Reinforced Concrete T-Beams with Anchored CFRP Laminates	Mhanna, H.H.   Hawileh, R.A.   Abdalla, J.A.   Salama, A.S.D.   Alkhrdaji, T.	Journal of Composites for Construction	25	4	-	Journal	Article	
Strengthening of high strength reinforced concrete thin slabs with CFRP laminates	Mahmoud, H.S.   Hawileh, R.A.   Abdalla, J.A.	Composite Structures	275	-	-	Journal	Article	
Effect of basalt microfibers on the shear response of short concrete beams reinforced with BFRP bars	Abed, F.   Sabbagh, M.K.   Karzad, A.S.	Composite Structures	269	-	-	Journal	Article	
Mechanical properties of strengthening 5083-h111 aluminum alloy plates at elevated temperatures	Abuzaid, W.   Hawileh, R.   Abdalla, J.	Infrastructures	6	6	-	Journal	Article	Gold
Seismic risk quantification and GIS-based seismic risk maps for Dubai-UAE Dataset	AlHamaydeh, M.   Al-Shamsi, G.   Aly, N.   Ali, T.	Data in Brief	39	-	-	Journal	Data Paper	Gold   Green
Behavior of Reinforced Concrete Beams Strengthened in Flexure using Externally Bonded Aluminum Alloy Plates	Abdalla, J.A.   Hawileh, R.A.   Rasheed, H.A.	Procedia Structural Integrity	37	C	652-659	Conference Proceeding	Conference Paper	Gold
Finite element modelling of aluminum alloy plated reinforced concrete beams	Abuodeh, O.R.   Hawileh, R.A.   Abdalla, J.A.	Computers and Concrete	27	6	585-596	Journal	Article	
Assessment of Effect of Strain Amplitude and Strain Ratio on Energy Dissipation Using Machine Learning	Abdalla, J.A.   Hawileh, R.A.	Lecture Notes in Civil Engineering	98	-	98-108	Book Series	Chapter	
Evaluation on the effect of anchor embedment depth on the flexural capacity of concrete prisms	Alshami, G.S.   Hawileh, R.A.   Abdalla, J.A.   Mhanna, H.H.	Procedia Structural Integrity	37	C	367-374	Conference Proceeding	Conference Paper	Gold
Comparative analysis of design guidelines for FRP contribution to shear capacity of strengthened RC beams	Mhanna, H.H.   Hawileh, R.A.   Abdalla, J.A.	Procedia Structural Integrity	37	C	359-366	Conference Proceeding	Conference Paper	Gold
Mechanical and microstructural properties of ambient-cured geopolymer concrete	Zannerni, G.M.   Al-Tamimi, A.K.   Fattah, K.P.	Handbook of advances in Alkali-activated Concrete	-	-	235-256	Book	Chapter	