Theme 3-2: Experimental and Computational Mechanics - 2019

Title	Authors	Scopus Source title	Volume	Issue	Pages	Source type	Publication type	Open Access
Finite element modeling of reinforced concrete beams externally strengthened in flexure with side-bonded FRP laminates	Hawileh, R.A.| Musto, H.A.| Abdalla, J.A.| Naser, M.Z.	Composites Part B: Engineering	173	-	-	Journal	Article	
Modeling the shear strength of concrete beams reinforced with CFRP bars under unsymmetrical loading	Hawileh, R.A.| Abdalla, J.A.| Naser, M.Z.	Mechanics of Advanced Materials and Structures	26	15	1290-1297	Journal	Article	
A state-of-the-art seismic source model for the United Arab Emirates	Sawires, R.| Peláez, J.A.| AlHamaydeh, M.| Henares, J.	Journal of Asian Earth Sciences	186	-	-	Journal	Article	
Predicting the response of continuous RC deep beams under varying levels of differential settlement	Naser, M.Z.| Hawileh, R.A.	Frontiers of Structural and Civil Engineering	13	3	686-700	Journal	Article	
Prediction of compressive strength of ultra-high performance concrete using SFS and ANN	Abuodeh, O.| Abdalla, J.A.| Hawileh, R.A.	2019 8th International Conference on Modeling Simulation and Applied Optimization, ICMSAO 2019	-	-	-	Conference Proceeding	Conference Paper	
Predicting the shear capacity of FRP in shear strengthened RC beams using ANN and NID	Abuodeh, O.| Abdalla, J.A.| Hawileh, R.A.	2019 8th International Conference on Modeling Simulation and Applied Optimization, ICMSAO 2019	-	-	-	Conference Proceeding	Conference Paper	
Lateral earth pressures acting on circular shafts considering soil-structure interaction	Chehadeh, A.| Turan, A.| Abed, F.| Yamin, M.	International Journal of Geotechnical Engineering	13	2	139-151	Journal	Article	
Finite element modelling of aluminum alloy plated beams	Abuodeh, O.| Alrifai, M.| Hawileh, R.A.| Abdalla, J.A.	2019 8th International Conference on Modeling Simulation and Applied Optimization, ICMSAO 2019	-	-	-	Conference Proceeding	Conference Paper	
Developing interaction diagram for BFRP-RC short columns using FEA	Hamze, A.A.| Al-Taher, R.| Taji, A.| Yazbak, D.| Abed, F.	2019 8th International Conference on Modeling Simulation and Applied Optimization, ICMSAO 2019	-	-	-	Conference Proceeding	Conference Paper	
FE parametric study of the compressive behavior of CFSTs	Elyoussef, M.| Elgriw, M.| Abed, F.	2019 8th International Conference on Modeling Simulation and Applied Optimization, ICMSAO 2019	-	-	-	Conference Proceeding	Conference Paper	
Finite element modeling of single shear pullout specimens and flexural prisms	Douier, K.| Alchaar, A.S.| Hawileh, R.A.| Abdalla, J.A.	2019 8th International Conference on Modeling Simulation and Applied Optimization, ICMSAO 2019	-	-	-	Conference Proceeding	Conference Paper	
Residual capacity of concrete prepared with porous aggregate exposed to elevated temperatures	Yehia, S.| Al-Theeb, M.| Al-Alami, A.| Turk, O.| Barakat, A.	FIB 2018 - Proceedings for the 2018 fib Congress: Better, Smarter, Stronger		-	2573-2581	Conference Proceeding	Conference Paper	
Shear strength of lightweight concrete beams without web reinforcement	El Shazly, M.| Yehia, S.| Abuzaid, W.	FIB 2018 - Proceedings for the 2018 fib Congress: Better, Smarter, Stronger	-	-	1755-1760	Conference Proceeding	Conference Paper	
'A finite element model of a UHPC beam reinforced with HSS bars	Abuodeh, O.| Abed, F.	2019 8th International Conference on Modeling Simulation and Applied Optimization, ICMSAO 2019	-	-	-	Conference Proceeding	Conference Paper	
pyROM: A computational framework for reduced order modeling	Puzyrev, V.| Ghommem, M.| Meka, S.	Journal of Computational Science	30	-	157-173	Journal	Article	
Nonlinear analysis and characteristics of electrically-coupled microbeams under mechanical shock	Ahmed, M.S.| Ghommem, M.| Abdelkefi, A.	Microsystem Technologies	25	3	829-843	Journal	Article	
Modeling and thermal analysis of a moving spacecraft subject to solar radiation effect	Gadalla, M.| Ghommem, M.| Bourantas, G.| Miller, K.	Processes	7	11	-	Journal	Article	Gold