Mostafa Jalal

List of Publications by Year in Descending Order

31 papers	1,091 citations	15 h-index	33 g-index
38 ext. papers	1,349 ext. citations	4.3 avg, IF	5.04 L-index

#	Paper	IF	Citations
31	A new nonlinear formulation-based prediction approach using artificial neural network (ANN) model for rubberized cement composite. *Engineering With Computers*, **2020**, 1	4.5	5
30	Computer-aided SPT-based reliability model for probability of liquefaction using hybrid PSO and GA. *Journal of Computational Design and Engineering*, **2020**, 7, 107-127	4.6	8
29	Application of adaptive neuro-fuzzy inference system for strength prediction of rubberized concrete containing silica fume and zeolite. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2020**, 234, 438-451	1.3	4
28	Big data in nanocomposites: ONN approach and mesh-free method for functionally graded carbon nanotube-reinforced composites. *Journal of Computational Design and Engineering*, **2019**, 6, 209-223	4.6	9
27	Cuckoo search algorithm for applied structural and design optimization: Float system for experimental setups. *Journal of Computational Design and Engineering*, **2019**, 6, 159-172	4.6	17
26	Waste tire rubber and pozzolans in concrete: A trade-off between cleaner production and mechanical properties in a greener concrete. *Journal of Cleaner Production*, **2019**, 238, 117882	10.3	33
25	On the strength and pulse velocity of rubberized concrete containing silica fume and zeolite: Prediction using multivariable regression models. *Construction and Building Materials*, **2019**, 223, 530-543	6.7	15
24	An Innovative Approach to Fly Ash Characterization and Evaluation to Prevent Alkali-Silica Reaction. *ACI Materials Journal*, **2019**, 116,	0.9	3
23	Performance-based design and optimization of rheological and strength properties of self-compacting cement composite incorporating micro/ nano admixtures. *Composites Part B: Engineering*, **2019**, 163, 497-510	10	20
22	Bat algorithm as a metaheuristic optimization approach in materials and design: optimal design of a new float for different materials. *Neural Computing and Applications*, **2019**, 31, 6151-6161	4.8	5
21	Design, manufacturing, and structural optimization of a composite float using particle swarm optimization and genetic algorithm. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, **2019**, 233, 1404-1418	1.3	5
20	A worldwide SPT-based soil liquefaction triggering analysis utilizing gene expression programming and Bayesian probabilistic method. *Journal of Rock Mechanics and Geotechnical Engineering*, **2017**, 9, 683-693	5.3	18
19	Effect of nano ZnO2 and lime water curing on strength and water absorption of concrete. *International Journal of Materials and Product Technology*, **2015**, 50, 356	1	15
18	Assessment of nano-TiO2 and class F fly ash effects on flexural fracture and microstructure of binary blended concrete. *Science and Engineering of Composite Materials*, **2015**, 22, 263-270	1.5	10
17	Soft computing techniques for compressive strength prediction of concrete cylinders strengthened by CFRP composites. *Science and Engineering of Composite Materials*, **2015**, 22, 97-112	1.5	13
16	Compressive strength prediction by ANN formulation approach for CFRP confined concrete cylinders. *Earthquake and Structures*, **2015**, 8, 1171-1190		10
15	Investigation of CFRP- and GFRP-confined concrete cylinders under monotonic and cyclic loading. *Science and Engineering of Composite Materials*, **2014**, 21, 607-614	1.5	3

14	A semi-analytical three-dimensional free vibration analysis of functionally graded curved panels integrated with piezoelectric layers. *Science and Engineering of Composite Materials*, **2014**, 21, 571-587	1.5	5
13	Multiobjective optimization of composite cylindrical shells for strength and frequency using genetic algorithm and neural networks. *Science and Engineering of Composite Materials*, **2014**, 21, 529-536	1.5	15
12	Corrosion resistant self-compacting concrete using micro and nano silica admixtures. *Structural Engineering and Mechanics*, **2014**, 51, 403-412		11
11	Effects of fly ash and TiO2 nanoparticles on rheological, mechanical, microstructural and thermal properties of high strength self compacting concrete. *Mechanics of Materials*, **2013**, 61, 11-27	3.3	135
10	Split tensile strength of binary blended self compacting concrete containing low volume fly ash and TiO2 nanoparticles. *Composites Part B: Engineering*, **2013**, 55, 324-337	10	44
9	Thermal and mechanical characteristics of cement nanocomposites. *Science and Engineering of Composite Materials*, **2013**, 20, 35-40	1.5	7
8	Influence of class F fly ash and silica nano-micro powder on water permeability and thermal properties of high performance cementitious composites. *Science and Engineering of Composite Materials*, **2013**, 20, 41-46	1.5	8
7	Mechanical, rheological, durability and microstructural properties of high performance self-compacting concrete containing SiO2 micro and nanoparticles. *Materials & Design*, **2012**, 34, 389-400		208
6	Strength enhancement modeling of concrete cylinders confined with CFRP composites using artificial neural networks. *Composites Part B: Engineering*, **2012**, 43, 2990-3000	10	45
5	Effects of fly ash and cement content on rheological, mechanical, and transport properties of high-performance self-compacting concrete. *Science and Engineering of Composite Materials*, **2012**, 19, 393-405	1.5	10
4	Transport properties of high-performance cementitious composites incorporating micro and nano SiO2 into the binder. *Science and Engineering of Composite Materials*, **2012**, 19, 415-421	1.5	7
3	Prediction of load□displacement curve of concrete reinforced by composite fibers (steel and polymeric) using artificial neural network. *Expert Systems With Applications*, **2010**, 37, 7663-7668	7.8	38
2	Mechanical and Rheological Properties of Glass Fiber-Reinforced Flowable Mortar (GFRFM): Optimization Using Taguchi Method. *KSCE Journal of Civil Engineering*,1	1.9	1
1	Analyses and Optimization for the Rheology-Strength Relationship of Basalt Fiber-Reinforced Self-Compacting Mortar. *Magazine of Concrete Research*,1-39	2	