

Mostafa Jalal

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Mechanical, rheological, durability and microstructural properties of high performance self-compacting concrete containing SiO ₂ micro and nanoparticles. <i>Materials & Design</i> , 2012 , 34, 389-400		208
30	Effects of fly ash and TiO ₂ nanoparticles on rheological, mechanical, microstructural and thermal properties of high strength self compacting concrete. <i>Mechanics of Materials</i> , 2013 , 61, 11-27	3.3	135
29	Strength enhancement modeling of concrete cylinders confined with CFRP composites using artificial neural networks. <i>Composites Part B: Engineering</i> , 2012 , 43, 2990-3000	10	45
28	Split tensile strength of binary blended self compacting concrete containing low volume fly ash and TiO ₂ nanoparticles. <i>Composites Part B: Engineering</i> , 2013 , 55, 324-337	10	44
27	Prediction of load-displacement curve of concrete reinforced by composite fibers (steel and polymeric) using artificial neural network. <i>Expert Systems With Applications</i> , 2010 , 37, 7663-7668	7.8	38
26	Waste tire rubber and pozzolans in concrete: A trade-off between cleaner production and mechanical properties in a greener concrete. <i>Journal of Cleaner Production</i> , 2019 , 238, 117882	10.3	33
25	Performance-based design and optimization of rheological and strength properties of self-compacting cement composite incorporating micro/ nano admixtures. <i>Composites Part B: Engineering</i> , 2019 , 163, 497-510	10	20
24	A worldwide SPT-based soil liquefaction triggering analysis utilizing gene expression programming and Bayesian probabilistic method. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2017 , 9, 683-693	5.3	18
23	Cuckoo search algorithm for applied structural and design optimization: Float system for experimental setups. <i>Journal of Computational Design and Engineering</i> , 2019 , 6, 159-172	4.6	17
22	On the strength and pulse velocity of rubberized concrete containing silica fume and zeolite: Prediction using multivariable regression models. <i>Construction and Building Materials</i> , 2019 , 223, 530-543	6.7	15
21	Effect of nano ZnO ₂ and lime water curing on strength and water absorption of concrete. <i>International Journal of Materials and Product Technology</i> , 2015 , 50, 356	1	15
20	Multiobjective optimization of composite cylindrical shells for strength and frequency using genetic algorithm and neural networks. <i>Science and Engineering of Composite Materials</i> , 2014 , 21, 529-536	1.5	15
19	Soft computing techniques for compressive strength prediction of concrete cylinders strengthened by CFRP composites. <i>Science and Engineering of Composite Materials</i> , 2015 , 22, 97-112	1.5	13
18	Corrosion resistant self-compacting concrete using micro and nano silica admixtures. <i>Structural Engineering and Mechanics</i> , 2014 , 51, 403-412		11
17	Assessment of nano-TiO ₂ and class F fly ash effects on flexural fracture and microstructure of binary blended concrete. <i>Science and Engineering of Composite Materials</i> , 2015 , 22, 263-270	1.5	10
16	Effects of fly ash and cement content on rheological, mechanical, and transport properties of high-performance self-compacting concrete. <i>Science and Engineering of Composite Materials</i> , 2012 , 19, 393-405	1.5	10
15	Compressive strength prediction by ANN formulation approach for CFRP confined concrete cylinders. <i>Earthquake and Structures</i> , 2015 , 8, 1171-1190		10

14	Big data in nanocomposites: ONN approach and mesh-free method for functionally graded carbon nanotube-reinforced composites. <i>Journal of Computational Design and Engineering</i> , 2019 , 6, 209-223	4.6	9
13	Computer-aided SPT-based reliability model for probability of liquefaction using hybrid PSO and GA. <i>Journal of Computational Design and Engineering</i> , 2020 , 7, 107-127	4.6	8
12	Influence of class F fly ash and silica nano-micro powder on water permeability and thermal properties of high performance cementitious composites. <i>Science and Engineering of Composite Materials</i> , 2013 , 20, 41-46	1.5	8
11	Thermal and mechanical characteristics of cement nanocomposites. <i>Science and Engineering of Composite Materials</i> , 2013 , 20, 35-40	1.5	7
10	Transport properties of high-performance cementitious composites incorporating micro and nano SiO ₂ into the binder. <i>Science and Engineering of Composite Materials</i> , 2012 , 19, 415-421	1.5	7
9	A new nonlinear formulation-based prediction approach using artificial neural network (ANN) model for rubberized cement composite. <i>Engineering With Computers</i> , 2020 , 1	4.5	5
8	A semi-analytical three-dimensional free vibration analysis of functionally graded curved panels integrated with piezoelectric layers. <i>Science and Engineering of Composite Materials</i> , 2014 , 21, 571-587	1.5	5
7	Bat algorithm as a metaheuristic optimization approach in materials and design: optimal design of a new float for different materials. <i>Neural Computing and Applications</i> , 2019 , 31, 6151-6161	4.8	5
6	Design, manufacturing, and structural optimization of a composite float using particle swarm optimization and genetic algorithm. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2019 , 233, 1404-1418	1.3	5
5	Application of adaptive neuro-fuzzy inference system for strength prediction of rubberized concrete containing silica fume and zeolite. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2020 , 234, 438-451	1.3	4
4	Investigation of CFRP- and GFRP-confined concrete cylinders under monotonic and cyclic loading. <i>Science and Engineering of Composite Materials</i> , 2014 , 21, 607-614	1.5	3
3	An Innovative Approach to Fly Ash Characterization and Evaluation to Prevent Alkali-Silica Reaction. <i>ACI Materials Journal</i> , 2019 , 116,	0.9	3
2	Mechanical and Rheological Properties of Glass Fiber-Reinforced Flowable Mortar (GFRFM): Optimization Using Taguchi Method. <i>KSCE Journal of Civil Engineering</i> , 1	1.9	1
1	Analyses and Optimization for the Rheology-Strength Relationship of Basalt Fiber-Reinforced Self-Compacting Mortar. <i>Magazine of Concrete Research</i> , 1-39	2	