Dongkyu Lee

List of Publications by Year
in descending order

29 papers	393 citations	840776 11 h-index	794594 19 g-index
29 all docs	29 docs citations	29 times ranked	246 citing authors

#	Article	IF	Citations
1	A non-homogeneous multi-material topology optimization approach for functionally graded structures with cracks. Composite Structures, 2021, 273, 114230.	5.8	21
2	Topological Optimal Material Design of Structures with Moved and Regularized Heaviside Function. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2020, 44, 103-117.	1.3	1
3	Multi-material structural topology optimization with decision making of stiffness design criteria. Advanced Engineering Informatics, 2020, 45, 101098.	8.0	9
4	Optimal Formation Assessment of Multi-layered Ground Retrofit with Arch-Grid Units Considering Buckling Load Factor. International Journal of Steel Structures, 2019, 19, 269-282.	1.3	11
5	Design of buckling constrained multiphase material structures using continuum topology optimization. Meccanica, 2019, 54, 1179-1201.	2.0	16
6	Topology optimization of multi-directional variable thickness thin plate with multiple materials. Structural and Multidisciplinary Optimization, 2019, 59, 1503-1520.	3.5	27
7	NURBS-based modeling and analysis for free vibration and buckling problems of in-plane bi-directional functionally graded plates. Mechanics of Advanced Materials and Structures, 2019, 26, 1064-1080.	2.6	52
8	Shape and size optimization of functionally graded sandwich plates using isogeometric analysis and adaptive hybrid evolutionary firefly algorithm. Thin-Walled Structures, 2018, 124, 588-604.	5.3	47
9	Multi-material topology optimization design for continuum structures with crack patterns. Composite Structures, 2018, 186, 193-209.	5.8	39
10	Real-time robust assessment of angles and positions of nonscaled steel outrigger structure with Maxwell-Mohr method. Construction and Building Materials, 2018, 186, 1161-1176.	7.2	10
11	Multi-layered UL700 arch-grid module with inelastic buckling for localized reinforcement of soft ground. Advances in Engineering Software, 2017, 110, 14-25.	3.8	4
12	Optimum topology design of multi-material structures with non-spurious buckling constraints. Advances in Engineering Software, 2017, 114, 110-120.	3.8	25
13	Evaluation of Optimized Topology Design of Cross-Formed Structures with a Negative Poisson's Ratio. Iranian Journal of Science and Technology - Transactions of Civil Engineering, 2016, 40, 109-120.	1.9	2
14	Real-time response assessment in steel frame remodeling using position-adjustment drift-curve formulations. Automation in Construction, 2016, 62, 57-65.	9.8	8
15	Specimen Test of Large-Heat-Input Fusion Welding Method for Use of SM570TMCP. Advances in Materials Science and Engineering, 2015, 2015, 1-13.	1.8	0
16	Automatic Position Information of Web-Openings of Building Using Minimized Strain Energy Topology Optimization. Advances in Materials Science and Engineering, 2015, 2015, 1-8.	1.8	1
17	Nonlinear pushover analysis of concrete column reinforced by multi-layered, high strength steel UL700 plates. Engineering Structures, 2015, 90, 1-14.	5.3	13
18	High tensile UL700 frame module with adjustable control of length and angle. Journal of Constructional Steel Research, 2015, 106, 246-257.	3.9	8

#	Article	IF	Citations
19	Extended-finite element method as analysis model for Gauss point density topology optimization method. Journal of Mechanical Science and Technology, 2015, 29, 1341-1348.	1.5	6
20	Layout evaluation of building outrigger truss by using material topology optimization. Steel and Composite Structures, 2015, 19, 263-275.	1.3	10
21	Optimizing structural topology patterns using regularization of Heaviside function. Structural Engineering and Mechanics, 2015, 55, 1157-1176.	1.0	5
22	Analytical testing and evaluation of truss typed structures for tunnel maintenance. Smart Structures and Systems, 2015, 15, 949-961.	1.9	0
23	Generation of OC and MMA topology optimizer by using accelerating design variables. Structural Engineering and Mechanics, 2015, 55, 901-911.	1.0	0
24	Investigation on material layouts of structural Diagrid frames by using topology optimization. KSCE Journal of Civil Engineering, 2014, 18, 549-557.	1.9	13
25	Advanced high strength steel tube diagrid using TRIZ and nonlinear pushover analysis. Journal of Constructional Steel Research, 2014, 96, 151-158.	3.9	38
26	Evaluating Topological Optimized Layout of Building Structures by Using Nodal Material Density Based Bilinear Interpolation. Journal of Asian Architecture and Building Engineering, 2014, 13, 421-428.	2.0	9
27	Generation of structural layout in use for â€˜0â€“1â€™ material consideringn-order eigenfrequency dependence. Materials Research Innovations, 2014, 18, S2-833-S2-839.	2.3	4
28	Evaluating high performance steel tube-framed diagrid for high-rise buildings. Steel and Composite Structures, 2014, 16, 289-303.	1.3	12
29	Topological material distribution evaluation for steel plate reinforcement by using CCARAT optimizer. Structural Engineering and Mechanics, 2014, 51, 793-808.	1.0	2