

# Dongkyu Lee

## List of Publications by Year in descending order

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29  
papers

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citations

840776

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docs citations

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times ranked

246  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | NURBS-based modeling and analysis for free vibration and buckling problems of in-plane bi-directional functionally graded plates. <i>Mechanics of Advanced Materials and Structures</i> , 2019, 26, 1064-1080.  | 2.6 | 52        |
| 2  | Shape and size optimization of functionally graded sandwich plates using isogeometric analysis and adaptive hybrid evolutionary firefly algorithm. <i>Thin-Walled Structures</i> , 2018, 124, 588-604.          | 5.3 | 47        |
| 3  | Multi-material topology optimization design for continuum structures with crack patterns. <i>Composite Structures</i> , 2018, 186, 193-209.   | 5.8 | 39        |
| 4  | Advanced high strength steel tube diagrid using TRIZ and nonlinear pushover analysis. <i>Journal of Constructional Steel Research</i> , 2014, 96, 151-158.  | 3.9 | 38        |
| 5  | Topology optimization of multi-directional variable thickness thin plate with multiple materials. <i>Structural and Multidisciplinary Optimization</i> , 2019, 59, 1503-1520.                                   | 3.5 | 27        |
| 6  | Optimum topology design of multi-material structures with non-spurious buckling constraints. <i>Advances in Engineering Software</i> , 2017, 114, 110-120.  | 3.8 | 25        |
| 7  | A non-homogeneous multi-material topology optimization approach for functionally graded structures with cracks. <i>Composite Structures</i> , 2021, 273, 114230.  | 5.8 | 21        |
| 8  | Design of buckling constrained multiphase material structures using continuum topology optimization. <i>Meccanica</i> , 2019, 54, 1179-1201.  | 2.0 | 16        |
| 9  | Investigation on material layouts of structural Diagrid frames by using topology optimization. <i>KSCE Journal of Civil Engineering</i> , 2014, 18, 549-557.  | 1.9 | 13        |
| 10 | Nonlinear pushover analysis of concrete column reinforced by multi-layered, high strength steel UL700 plates. <i>Engineering Structures</i> , 2015, 90, 1-14.   | 5.3 | 13        |
| 11 | Evaluating high performance steel tube-framed diagrid for high-rise buildings. <i>Steel and Composite Structures</i> , 2014, 16, 289-303.   | 1.3 | 12        |
| 12 | Optimal Formation Assessment of Multi-layered Ground Retrofit with Arch-Grid Units Considering Buckling Load Factor. <i>International Journal of Steel Structures</i> , 2019, 19, 269-282.                      | 1.3 | 11        |
| 13 | Real-time robust assessment of angles and positions of nonscaled steel outrigger structure with Maxwell-Mohr method. <i>Construction and Building Materials</i> , 2018, 186, 1161-1176.                         | 7.2 | 10        |
| 14 | Layout evaluation of building outrigger truss by using material topology optimization. <i>Steel and Composite Structures</i> , 2015, 19, 263-275.   | 1.3 | 10        |
| 15 | Evaluating Topological Optimized Layout of Building Structures by Using Nodal Material Density Based Bilinear Interpolation. <i>Journal of Asian Architecture and Building Engineering</i> , 2014, 13, 421-428. | 2.0 | 9         |
| 16 | Multi-material structural topology optimization with decision making of stiffness design criteria. <i>Advanced Engineering Informatics</i> , 2020, 45, 101098.  | 8.0 | 9         |
| 17 | High tensile UL700 frame module with adjustable control of length and angle. <i>Journal of Constructional Steel Research</i> , 2015, 106, 246-257.  | 3.9 | 8         |
| 18 | Real-time response assessment in steel frame remodeling using position-adjustment drift-curve formulations. <i>Automation in Construction</i> , 2016, 62, 57-65.  | 9.8 | 8         |

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|----|---|-----|-----------|
| 19 | Extended-finite element method as analysis model for Gauss point density topology optimization method. <i>Journal of Mechanical Science and Technology</i> , 2015, 29, 1341-1348.                               | 1.5 | 6         |
| 20 | Optimizing structural topology patterns using regularization of Heaviside function. <i>Structural Engineering and Mechanics</i> , 2015, 55, 1157-1176.  | 1.0 | 5         |
| 21 | Generation of structural layout in use for $\epsilon$ -insensitive material considering n-order eigenfrequency dependence. <i>Materials Research Innovations</i> , 2014, 18, S2-833-S2-839.                     | 2.3 | 4         |
| 22 | Multi-layered UL700 arch-grid module with inelastic buckling for localized reinforcement of soft ground. <i>Advances in Engineering Software</i> , 2017, 110, 14-25.  | 3.8 | 4         |
| 23 | Evaluation of Optimized Topology Design of Cross-Formed Structures with a Negative Poisson's Ratio. <i>Iranian Journal of Science and Technology - Transactions of Civil Engineering</i> , 2016, 40, 109-120.   | 1.9 | 2         |
| 24 | Topological material distribution evaluation for steel plate reinforcement by using CCARAT optimizer. <i>Structural Engineering and Mechanics</i> , 2014, 51, 793-808.  | 1.0 | 2         |
| 25 | Automatic Position Information of Web-Openings of Building Using Minimized Strain Energy Topology Optimization. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-8.                         | 1.8 | 1         |
| 26 | Topological Optimal Material Design of Structures with Moved and Regularized Heaviside Function. <i>Iranian Journal of Science and Technology - Transactions of Mechanical Engineering</i> , 2020, 44, 103-117. | 1.3 | 1         |
| 27 | Specimen Test of Large-Heat-Input Fusion Welding Method for Use of SM570TMCP. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-13.  | 1.8 | 0         |
| 28 | Analytical testing and evaluation of truss typed structures for tunnel maintenance. <i>Smart Structures and Systems</i> , 2015, 15, 949-961.  | 1.9 | 0         |
| 29 | Generation of OC and MMA topology optimizer by using accelerating design variables. <i>Structural Engineering and Mechanics</i> , 2015, 55, 901-911.  | 1.0 | 0         |