

# Sungho Tae

## 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.

50  
papers

923  
citations

16  
h-index

29  
g-index

51  
ext. papers

1,047  
ext. citations

6.9  
avg, IF

4.77  
L-index

#	Paper	IF	Citations
50	Life cycle CO <sub>2</sub> evaluation on reinforced concrete structures with high-strength concrete. <i>Environmental Impact Assessment Review</i> , <b>2011</b> , 31, 253-260	5.3	81
49	Green Template for Life Cycle Assessment of Buildings Based on Building Information Modeling: Focus on Embodied Environmental Impact. <i>Sustainability</i> , <b>2015</b> , 7, 16498-16512	3.6	74
48	The development of apartment house life cycle CO <sub>2</sub> simple assessment system using standard apartment houses of South Korea. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 1454-1467	16.2	68
47	Assessment of the CO <sub>2</sub> emission and cost reduction performance of a low-carbon-emission concrete mix design using an optimal mix design system. <i>Renewable and Sustainable Energy Reviews</i> , <b>2013</b> , 25, 729-741	16.2	62
46	Development of a Life Cycle Assessment Program for building (SUSB-LCA) in South Korea. <i>Renewable and Sustainable Energy Reviews</i> , <b>2009</b> , 13, 1994-2002	16.2	55
45	Life cycle CO <sub>2</sub> assessment of concrete by compressive strength on construction site in Korea. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 2940-2946	16.2	49
44	Current work and future trends for sustainable buildings in South Korea. <i>Renewable and Sustainable Energy Reviews</i> , <b>2009</b> , 13, 1910-1921	16.2	42
43	Development of a building life cycle carbon emissions assessment program (BEGAS 2.0) for Korea's green building index certification system. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 53, 954-965	16.2	36
42	An integrated assessment system for managing life cycle CO <sub>2</sub> emissions of a building. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 73, 265-275	16.2	33
41	Development of building materials embodied greenhouse gases assessment criteria and system (BEGAS) in the newly revised Korea Green Building Certification System (G-SEED). <i>Renewable and Sustainable Energy Reviews</i> , <b>2014</b> , 35, 410-421	16.2	33
40	Evaluating the embodied environmental impacts of major building tasks and materials of apartment buildings in Korea. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 73, 135-144	16.2	32
39	The development of environmental load evaluation system of a standard Korean apartment house. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 1239-1249	16.2	30
38	Analysis of Environmental Impact for Concrete Using LCA by Varying the Recycling Components, the Compressive Strength and the Admixture Material Mixing. <i>Sustainability</i> , <b>2016</b> , 8, 389	3.6	28
37	Development of an optimum design program (SUSB-OPTIMUM) for the life cycle CO <sub>2</sub> assessment of an apartment house in Korea. <i>Building and Environment</i> , <b>2014</b> , 73, 40-54	6.5	27
36	Integrated building life-cycle assessment model to support South Korea's green building certification system (G-SEED). <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 76, 43-50	16.2	25
35	A Study on the Analysis of CO <sub>2</sub> Emissions of Apartment Housing in the Construction Process. <i>Sustainability</i> , <b>2018</b> , 10, 365	3.6	17
34	Building Simplified Life Cycle CO <sub>2</sub> Emissions Assessment Tool (B-SCAT) to Support Low-Carbon Building Design in South Korea. <i>Sustainability</i> , <b>2016</b> , 8, 567	3.6	16

33	A Study on the Limitations of South Korea's National Roadmap for Greenhouse Gas Reduction by 2030 and Suggestions for Improvement. <i>Sustainability</i> , <b>2019</b> , 11, 3969	3.6	15
32	Theoretical Study on the Production of Environment-Friendly Recycled Cement Using Inorganic Construction Wastes as Secondary Materials in South Korea. <i>Sustainability</i> , <b>2018</b> , 10, 4449	3.6	15
31	Life cycle environmental loads and economic efficiencies of apartment buildings built with plaster board drywall. <i>Renewable and Sustainable Energy Reviews</i> , <b>2011</b> , 15, 4145-4155	16.2	14
30	Life Cycle CO2 Assessment by Block Type Changes of Apartment Housing. <i>Sustainability</i> , <b>2016</b> , 8, 752	3.6	14
29	Analysis of Heating and Cooling Loads of Electrochromic Glazing in High-Rise Residential Buildings in South Korea. <i>Sustainability</i> , <b>2018</b> , 10, 1121	3.6	13
28	Analysis of Embodied Environmental Impacts of Korean Apartment Buildings Considering Major Building Materials. <i>Sustainability</i> , <b>2018</b> , 10, 1693	3.6	13
27	Development of low carbon durability design for green apartment buildings in South Korea. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 77, 263-272	16.2	11
26	Developing a Green Building Index (GBI) Certification System to Effectively Reduce Carbon Emissions in South Korea's Building Industry. <i>Sustainability</i> , <b>2018</b> , 10, 1872	3.6	11
25	Evaluation of Energy and Daylight Performance of Old Office Buildings in South Korea with Curtain Walls Remodeled Using Polymer Dispersed Liquid Crystal (PDLC) Films. <i>Energies</i> , <b>2019</b> , 12, 3679	3.1	11
24	Impact of Business Portfolio Diversification on Construction Company Insolvency in Korea. <i>Journal of Management in Engineering - ASCE</i> , <b>2016</b> , 32, 05016003	5.3	9
23	Energy Demand Forecast Models for Commercial Buildings in South Korea. <i>Energies</i> , <b>2019</b> , 12, 2313	3.1	8
22	Profit Distribution in Guaranteed Savings Contracts: Determination Based on the Collar Option Model. <i>Sustainability</i> , <b>2015</b> , 7, 16273-16289	3.6	8
21	LDA-Based Model for Measuring Impact of Change Orders in Apartment Projects and Its Application for Prerisk Assessment and Postevaluation. <i>Journal of Construction Engineering and Management - ASCE</i> , <b>2015</b> , 141, 04015011	4.2	7
20	Development of a Streamlined Environmental Life Cycle Costing Model for Buildings in South Korea. <i>Sustainability</i> , <b>2018</b> , 10, 1733	3.6	7
19	Evaluation of Mechanical Performance of Corroded Reinforcement Considering the Surface Shape. <i>ISIJ International</i> , <b>2009</b> , 49, 1392-1400	1.7	7
18	Proposal for the Evaluation of Eco-Efficient Concrete. <i>Sustainability</i> , <b>2016</b> , 8, 705	3.6	6
17	Life Cycle Assessment Applied to Green Building Certification in South Korea. <i>Procedia Engineering</i> , <b>2015</b> , 118, 1309-1313		6
16	Suggestions of Policy Direction to Improve the Housing Quality in South Korea. <i>Sustainability</i> , <b>2016</b> , 8, 438	3.6	6

15	Calculation Methods of Emission Factors and Emissions of Fugitive Particulate Matter in South Korean Construction Sites. <i>Sustainability</i> , <b>2020</b> , 12, 9802	3.6	5
14	A Study on the Sustainable Building Technologies Considering to Performance of Greenhouse Gas Emission Reduction. <i>Procedia Engineering</i> , <b>2015</b> , 118, 1305-1308		5
13	Analysis of the Primary Building Materials in Support of G-SEED Life Cycle Assessment in South Korea. <i>Sustainability</i> , <b>2018</b> , 10, 2820	3.6	5
12	Development of a Green Building Materials Integrated Platform Based on Materials and Resources in G-SEED in South Korea. <i>Sustainability</i> , <b>2019</b> , 11, 6532	3.6	4
11	Probabilistic Analysis of Major Construction Materials in the Life Cycle Embodied Environmental Cost of Korean Apartment Buildings. <i>Sustainability</i> , <b>2019</b> , 11, 846	3.6	3
10	Development of a Decision Support Model Based on Machine Learning for Applying Greenhouse Gas Reduction Technology. <i>Sustainability</i> , <b>2020</b> , 12, 3582	3.6	3
9	Evaluation Model for Particulate Matter Emissions in Korean Construction Sites. <i>Sustainability</i> , <b>2021</b> , 13, 11428	3.6	2
8	Scenarios for Life Cycle Studies of Bridge Concrete Structure Maintenance. <i>Sustainability</i> , <b>2020</b> , 12, 9557	3.6	2
7	Development of Building Information Modeling Template for Environmental Impact Assessment. <i>Sustainability</i> , <b>2021</b> , 13, 3092	3.6	2
6	Development of IoT-Based Particulate Matter Monitoring System for Construction Sites. <i>International Journal of Environmental Research and Public Health</i> , <b>2021</b> , 18,	4.6	1
5	Analysis of Worker Category Social Impacts in Different Types of Concrete Plant Operations: A Case Study in South Korea. <i>Sustainability</i> , <b>2018</b> , 10, 3661	3.6	1
4	Technology for Predicting Particulate Matter Emissions at Construction Sites in South Korea. <i>Sustainability</i> , <b>2021</b> , 13, 13792	3.6	1
3	Prediction of the Energy Self-Sufficiency Rate of Major New Renewable Energy Types Based on Zero-Energy Building Certification Cases in South Korea. <i>Sustainability</i> , <b>2021</b> , 13, 11552	3.6	
2	Major Building Materials in Terms of Environmental Impact Evaluation of School Buildings in South Korea. <i>Buildings</i> , <b>2022</b> , 12, 498	3.2	
1	Establishment and Utilization Plans of Apartment Housing Envelope System Database. <i>Sustainability</i> , <b>2022</b> , 14, 4859	3.6	