

# Hyunjun Kim

## List of Publications by Year in Descending Order

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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.

25  
papers

468  
citations

11  
h-index

21  
g-index

26  
ext. papers

673  
ext. citations

4.9  
avg, IF

4.34  
L-index

#	Paper	IF	Citations
25	Automated concrete crack evaluation using stereo vision with two different focal lengths. <i>Automation in Construction</i> , <b>2022</b> , 135, 104136	9.6	4
24	Long-term autogenous healing and re-healing performance in concrete: Evaluation using air-coupled surface-wave method. <i>Construction and Building Materials</i> , <b>2021</b> , 307, 124939	6.7	3
23	Framework for characterizing the time-dependent volumetric properties of aerated cementitious material. <i>Construction and Building Materials</i> , <b>2021</b> , 284, 122781	6.7	1
22	Crack identification method for concrete structures considering angle of view using RGB-D camera-based sensor fusion. <i>Structural Health Monitoring</i> , <b>2021</b> , 20, 500-512	4.4	4
21	Automated Damage Localization and Quantification in Concrete Bridges Using Point Cloud-Based Surface-Fitting Strategy. <i>Journal of Computing in Civil Engineering</i> , <b>2021</b> , 35, 04021028	5	2
20	Automated bridge component recognition from point clouds using deep learning. <i>Structural Control and Health Monitoring</i> , <b>2020</b> , 27, e2591	4.5	17
19	Microstructural characteristics of sound absorbable porous cement-based materials by incorporating natural fibers and aluminum powder. <i>Construction and Building Materials</i> , <b>2020</b> , 243, 118167	6.7	11
18	Characterization of Porous Cementitious Materials Using Microscopic Image Processing and X-ray CT Analysis. <i>Materials</i> , <b>2020</b> , 13,	3.5	6
17	Automated wireless monitoring system for cable tension forces using deep learning. <i>Structural Health Monitoring</i> , <b>2020</b> , 147592172093583	4.4	3
16	Rheology-based determination of injectable grout fluidity for preplaced aggregate concrete using ultrasonic tomography. <i>Construction and Building Materials</i> , <b>2020</b> , 260, 120447	6.7	4
15	Prediction Model for Mechanical Properties of Lightweight Aggregate Concrete Using Artificial Neural Network. <i>Materials</i> , <b>2019</b> , 12,	3.5	15
14	Automated peak picking using region-based convolutional neural network for operational modal analysis. <i>Structural Control and Health Monitoring</i> , <b>2019</b> , 26, e2436	4.5	15
13	Performance assessment method for crack repair in concrete using PZT-based electromechanical impedance technique. <i>NDT and E International</i> , <b>2019</b> , 104, 90-97	4.1	16
12	Crack and Noncrack Classification from Concrete Surface Images Using Machine Learning. <i>Structural Health Monitoring</i> , <b>2019</b> , 18, 725-738	4.4	88
11	Surface-Wave Based Model for Estimation of Discontinuity Depth in Concrete. <i>Sensors</i> , <b>2018</b> , 18,	3.8	6
10	Applicability of Diffuse Ultrasound to Evaluation of the Water Permeability and Chloride Ion Penetrability of Cracked Concrete. <i>Sensors</i> , <b>2018</b> , 18,	3.8	4
9	Comparative analysis of image binarization methods for crack identification in concrete structures. <i>Cement and Concrete Research</i> , <b>2017</b> , 99, 53-61	10.3	90

8	Flood fragility analysis for bridges with multiple failure modes. <i>Advances in Mechanical Engineering</i> , <b>2017</b> , 9, 168781401769641	1.2	22
7	Concrete Crack Identification Using a UAV Incorporating Hybrid Image Processing. <i>Sensors</i> , <b>2017</b> , 17,	3.8	84
6	Principles and Applications of Ultrasonic-Based Nondestructive Methods for Self-Healing in Cementitious Materials. <i>Materials</i> , <b>2017</b> , 10,	3.5	35
5	A new methodology development for flood fragility curve derivation considering structural deterioration for bridges. <i>Smart Structures and Systems</i> , <b>2016</b> , 17, 149-165		8
4	Flood fragility analysis of bridge piers in consideration of debris impacts. <i>Journal of the Korea Academia-Industrial Cooperation Society</i> , <b>2016</b> , 17, 325-331		
3	Data fusion of acceleration and angular velocity for improved model updating. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2016</b> , 91, 239-250	4.6	13
2	Experimental validation of Kalman filter-based strain estimation in structures subjected to non-zero mean input. <i>Smart Structures and Systems</i> , <b>2015</b> , 15, 489-503		17
1	Monitoring of self-healing in concrete with micro-capsules using a combination of air-coupled surface wave and computer-vision techniques. <i>Structural Health Monitoring</i> , 147592172110410	4.4	0