Tae-Keun Oh

List of Publications by Year in Descending Order

44 papers	567 citations	13 h-index	23 g-index
46 ext. papers	707 ext. citations	3.1 avg, IF	4.24 L-index

#	Paper	IF	Citations
44	Non-destructive analysis of power insulators by frequency response function and three dimensional-computed tomography. *Mechanical Systems and Signal Processing*, **2022**, 177, 109310	7.8	1
43	A Study on the Detection of Internal Defect Types for Duct Depth of Prestressed Concrete Structures Using Electromagnetic and Elastic Waves. *Materials*, **2021**, 14,	3.5	4
42	Suggestions for safety coordinators' roles at each construction stage (client, designer, supervisor, and contractor) to improve safety and health activities in South Korea. *Safety Science*, **2021**, 133, 104994	5.8	3
41	LiDAR-Based Bridge Displacement Estimation Using 3D Spatial Optimization. *Sensors*, **2020**, 20,	3.8	6
40	Damage Evaluation of Porcelain Insulators with 154 kV Transmission Lines by Various Support Vector Machine (SVM) and Ensemble Methods Using Frequency Response Data. *Applied Sciences (Switzerland)*, **2020**, 10, 84	2.6	6
39	A Study on Data Pre-Processing and Accident Prediction Modelling for Occupational Accident Analysis in the Construction Industry. *Applied Sciences (Switzerland)*, **2020**, 10, 7949	2.6	4
38	Application of Tooth Gear Impact-Echo System for Repeated and Rapid Data Acquisition. *Applied Sciences (Switzerland)*, **2020**, 10, 4784	2.6	1
37	Prediction of Static Modulus and Compressive Strength of Concrete from Dynamic Modulus Associated with Wave Velocity and Resonance Frequency Using Machine Learning Techniques. *Materials*, **2020**, 13,	3.5	2
36	Study on Prediction and Application of Initial Chord Elastic Modulus with Resonance Frequency Test of ASTM C 215. *Applied Sciences (Switzerland)*, **2020**, 10, 5464	2.6	
35	Development of Equipment and Application of Machine Learning Techniques Using Frequency Response Data for Cap Damage Detection of Porcelain Insulators. *Applied Sciences (Switzerland)*, **2020**, 10, 2820	2.6	5
34	Damage Assessment of Porcelain Insulators through Principal Component Analysis Associated with Frequency Response Signals. *Applied Sciences (Switzerland)*, **2019**, 9, 3150	2.6	3
33	A Terrestrial LiDAR-Based Detection of Shape Deformation for Maintenance of Bridge Structures. *Journal of Construction Engineering and Management - ASCE*, **2019**, 145, 04019075	4.2	12
32	Prediction of Concrete Strength with P-, S-, R-Wave Velocities by Support Vector Machine (SVM) and Artificial Neural Network (ANN). *Applied Sciences (Switzerland)*, **2019**, 9, 4053	2.6	20
31	The effective near-surface defect identification by dynamic behavior associated with both impact-echo and flexural modes for concrete structures. *KSCE Journal of Civil Engineering*, **2018**, 22, 747-754	1.9	3
30	Development of Image Processing for Crack Detection on Concrete Structures through Terrestrial Laser Scanning Associated with the Octree Structure. *Applied Sciences (Switzerland)*, **2018**, 8, 2373	2.6	19
29	Three-Dimensional Visualization Solution to Building-Energy Diagnosis for Energy Feedback. *Energies*, **2018**, 11, 1736	3.1	6
28	Nondestructive Concrete Strength Estimation based on Electro-Mechanical Impedance with Artificial Neural Network. *Journal of Advanced Concrete Technology*, **2017**, 15, 94-102	2.3	24

27	Evaluating the Dynamic Elastic Modulus of Concrete Using Shear-Wave Velocity Measurements. *Advances in Materials Science and Engineering*, **2017**, 2017, 1-13	1.5	22
26	Transient SU/PG modelling of discontinuous wave propagation. *Progress in Computational Fluid Dynamics*, **2016**, 16, 146	0.7	6
25	Viscoelastic Properties of Fresh Cement Paste to Study the Flow Behavior. *International Journal of Concrete Structures and Materials*, **2016**, 10, 65-74	2.8	23
24	A Case Study on the Improvement of Risk Assessment by Worker-Oriented Safety Circle Discussion in Construction Industry by the Survey. *Journal of the Korean Society of Safety*, **2016**, 31, 82-88		
23	The Measurement of P-, S-, and R-Wave Velocities to Evaluate the Condition of Reinforced and Prestressed Concrete Slabs. *Advances in Materials Science and Engineering*, **2016**, 2016, 1-14	1.5	12
22	The Simple Lamb Wave Analysis to Characterize Concrete Wide Beams by the Practical MASW Test. *Materials*, **2016**, 9,	3.5	9
21	Application of Impact Resonance C-Scan Stack Images to Evaluate Bridge Deck Conditions. *Journal of Infrastructure Systems*, **2015**, 21, 04014029	2.9	3
20	Integrating embedded piezoelectric sensors with continuous wavelet transforms for real-time concrete curing strength monitoring. *Structure and Infrastructure Engineering*, **2015**, 11, 897-903	2.9	17
19	Practical Visualization of Local Vibration Data Collected over Large Concrete Elements. *Computer-Aided Civil and Infrastructure Engineering*, **2015**, 30, 68-81	8.4	4
18	The development of a web-based construction safety management information system to improve risk assessment. *KSCE Journal of Civil Engineering*, **2015**, 19, 528-537	1.9	12
17	Effect of Cylinder Size on the Modulus of Elasticity and Compressive Strength of Concrete from Static and Dynamic Tests. *Advances in Materials Science and Engineering*, **2015**, 2015, 1-12	1.5	18
16	A Study on the Influence Factors on Flexural and Thickness Modes in the Impact-echo Test. *Journal of the Computational Structural Engineering Institute of Korea*, **2015**, 28, 659-666	0.1	3
15	A Study on the Improvement of KOSHA 18001 Utilization in Construction Industry associated with the External Evaluator. *Journal of the Korean Society of Safety*, **2015**, 30, 135-141		
14	Comparison of Data-Processing Methods by Air-Coupled Impact Echo Testing for the Assessment of a Concrete Slab. *Journal of Testing and Evaluation*, **2014**, 42, 20130041	1	2
13	Effect of Mixing and Placing in Hot Weather on Hardened Concrete Properties. *International Journal of Concrete Structures and Materials*, **2013**, 7, 165-174	2.8	5
12	A study of flare load reduction by a safety instrumented system based on a high integrity protection system. *Process Safety Progress*, **2013**, 32, 393-400	1	2
11	Analysis of vibration for regions above rectangular delamination defects in solids. *Journal of Sound and Vibration*, **2013**, 332, 1766-1776	3.9	21
10	Improved Interpretation of Vibration Responses from Concrete Delamination Defects Using Air-Coupled Impact Resonance Tests. *Journal of Engineering Mechanics - ASCE*, **2013**, 139, 315-324	2.4	13

9	Comparison of NDT Methods for Assessment of a Concrete Bridge Deck. *Journal of Engineering Mechanics - ASCE*, **2013**, 139, 305-314	2.4	57
8	Analysis of Velocity Structures and Shear Stresses by Parameters and Internal Boundary Conditions of Depth-averaged Flow Model. *Journal of the Korean Society of Safety*, **2013**, 28, 54-60		
7	Visualization of Delamination Region in Concrete Structures using Mode Shapes of Delaminated Concrete Section (I) : Modal Test. *Journal of the Korean Society of Safety*, **2013**, 28, 21-26		1
6	Visualization of Delamination Region in Concrete Structures using Mode Shapes of Delaminated Concrete Section (II) : Impact-Echo Test. *Journal of the Korean Society of Safety*, **2013**, 28, 36-41		
5	Nondestructive Bridge Deck Testing with Air-Coupled Impact-Echo and Infrared Thermography. *Journal of Bridge Engineering*, **2012**, 17, 928-939	2.7	66
4	Practical finite element based simulations of nondestructive evaluation methods for concrete. *Computers and Structures*, **2012**, 98-99, 55-65	4.5	5
3	Cost Effective Air-Coupled Impact-Echo Sensing for Rapid Detection of Delamination Damage in Concrete Structures. *Advances in Structural Engineering*, **2012**, 15, 887-895	1.9	9
2	Application of electro-mechanical impedance sensing technique for online monitoring of strength development in concrete using smart PZT patches. *Construction and Building Materials*, **2009**, 23, 1185-1188	6.7	105
1	Effect of strength and age on the stress–strain curves of concrete specimens. *Cement and Concrete Research*, **2003**, 33, 1235-1244	10.3	33