

Tae-Keun Oh

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.

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	Application of electro-mechanical impedance sensing technique for online monitoring of strength development in concrete using smart PZT patches. <i>Construction and Building Materials</i> , 2009 , 23, 1185-1188	6.7	105
43	Nondestructive Bridge Deck Testing with Air-Coupled Impact-Echo and Infrared Thermography. <i>Journal of Bridge Engineering</i> , 2012 , 17, 928-939	2.7	66
42	Comparison of NDT Methods for Assessment of a Concrete Bridge Deck. <i>Journal of Engineering Mechanics - ASCE</i> , 2013 , 139, 305-314	2.4	57
41	Effect of strength and age on the stress-strain curves of concrete specimens. <i>Cement and Concrete Research</i> , 2003 , 33, 1235-1244	10.3	33
40	Nondestructive Concrete Strength Estimation based on Electro-Mechanical Impedance with Artificial Neural Network. <i>Journal of Advanced Concrete Technology</i> , 2017 , 15, 94-102	2.3	24
39	Viscoelastic Properties of Fresh Cement Paste to Study the Flow Behavior. <i>International Journal of Concrete Structures and Materials</i> , 2016 , 10, 65-74	2.8	23
38	Evaluating the Dynamic Elastic Modulus of Concrete Using Shear-Wave Velocity Measurements. <i>Advances in Materials Science and Engineering</i> , 2017 , 2017, 1-13	1.5	22
37	Analysis of vibration for regions above rectangular delamination defects in solids. <i>Journal of Sound and Vibration</i> , 2013 , 332, 1766-1776	3.9	21
36	Prediction of Concrete Strength with P-, S-, R-Wave Velocities by Support Vector Machine (SVM) and Artificial Neural Network (ANN). <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4053	2.6	20
35	Development of Image Processing for Crack Detection on Concrete Structures through Terrestrial Laser Scanning Associated with the Octree Structure. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2373	2.6	19
34	Effect of Cylinder Size on the Modulus of Elasticity and Compressive Strength of Concrete from Static and Dynamic Tests. <i>Advances in Materials Science and Engineering</i> , 2015 , 2015, 1-12	1.5	18
33	Integrating embedded piezoelectric sensors with continuous wavelet transforms for real-time concrete curing strength monitoring. <i>Structure and Infrastructure Engineering</i> , 2015 , 11, 897-903	2.9	17
32	Improved Interpretation of Vibration Responses from Concrete Delamination Defects Using Air-Coupled Impact Resonance Tests. <i>Journal of Engineering Mechanics - ASCE</i> , 2013 , 139, 315-324	2.4	13
31	A Terrestrial LiDAR-Based Detection of Shape Deformation for Maintenance of Bridge Structures. <i>Journal of Construction Engineering and Management - ASCE</i> , 2019 , 145, 04019075	4.2	12
30	The development of a web-based construction safety management information system to improve risk assessment. <i>KSCE Journal of Civil Engineering</i> , 2015 , 19, 528-537	1.9	12
29	The Measurement of P-, S-, and R-Wave Velocities to Evaluate the Condition of Reinforced and Prestressed Concrete Slabs. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-14	1.5	12
28	Cost Effective Air-Coupled Impact-Echo Sensing for Rapid Detection of Delamination Damage in Concrete Structures. <i>Advances in Structural Engineering</i> , 2012 , 15, 887-895	1.9	9

27	The Simple Lamb Wave Analysis to Characterize Concrete Wide Beams by the Practical MASW Test. <i>Materials</i> , 2016 , 9,	3.5	9
26	LiDAR-Based Bridge Displacement Estimation Using 3D Spatial Optimization. <i>Sensors</i> , 2020 , 20,	3.8	6
25	Damage Evaluation of Porcelain Insulators with 154 kV Transmission Lines by Various Support Vector Machine (SVM) and Ensemble Methods Using Frequency Response Data. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 84	2.6	6
24	Transient SU/PG modelling of discontinuous wave propagation. <i>Progress in Computational Fluid Dynamics</i> , 2016 , 16, 146	0.7	6
23	Three-Dimensional Visualization Solution to Building-Energy Diagnosis for Energy Feedback. <i>Energies</i> , 2018 , 11, 1736	3.1	6
22	Effect of Mixing and Placing in Hot Weather on Hardened Concrete Properties. <i>International Journal of Concrete Structures and Materials</i> , 2013 , 7, 165-174	2.8	5
21	Practical finite element based simulations of nondestructive evaluation methods for concrete. <i>Computers and Structures</i> , 2012 , 98-99, 55-65	4.5	5
20	Development of Equipment and Application of Machine Learning Techniques Using Frequency Response Data for Cap Damage Detection of Porcelain Insulators. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 2820	2.6	5
19	Practical Visualization of Local Vibration Data Collected over Large Concrete Elements. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2015 , 30, 68-81	8.4	4
18	A Study on Data Pre-Processing and Accident Prediction Modelling for Occupational Accident Analysis in the Construction Industry. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7949	2.6	4
17	A Study on the Detection of Internal Defect Types for Duct Depth of Prestressed Concrete Structures Using Electromagnetic and Elastic Waves. <i>Materials</i> , 2021 , 14,	3.5	4
16	Damage Assessment of Porcelain Insulators through Principal Component Analysis Associated with Frequency Response Signals. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 3150	2.6	3
15	Application of Impact Resonance C-Scan Stack Images to Evaluate Bridge Deck Conditions. <i>Journal of Infrastructure Systems</i> , 2015 , 21, 04014029	2.9	3
14	The effective near-surface defect identification by dynamic behavior associated with both impact-echo and flexural modes for concrete structures. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 747-754	1.9	3
13	A Study on the Influence Factors on Flexural and Thickness Modes in the Impact-echo Test. <i>Journal of the Computational Structural Engineering Institute of Korea</i> , 2015 , 28, 659-666	0.1	3
12	Suggestions for safety coordinator's roles at each construction stage (client, designer, supervisor, and contractor) to improve safety and health activities in South Korea. <i>Safety Science</i> , 2021 , 133, 104994	5.8	3
11	A study of flare load reduction by a safety instrumented system based on a high integrity protection system. <i>Process Safety Progress</i> , 2013 , 32, 393-400	1	2
10	Comparison of Data-Processing Methods by Air-Coupled Impact Echo Testing for the Assessment of a Concrete Slab. <i>Journal of Testing and Evaluation</i> , 2014 , 42, 20130041	1	2

9	Prediction of Static Modulus and Compressive Strength of Concrete from Dynamic Modulus Associated with Wave Velocity and Resonance Frequency Using Machine Learning Techniques. <i>Materials</i> , 2020 , 13,	3.5	2
8	Visualization of Delamination Region in Concrete Structures using Mode Shapes of Delaminated Concrete Section (I) : Modal Test. <i>Journal of the Korean Society of Safety</i> , 2013 , 28, 21-26		1
7	Application of Tooth Gear Impact-Echo System for Repeated and Rapid Data Acquisition. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 4784	2.6	1
6	Non-destructive analysis of power insulators by frequency response function and three dimensional-computed tomography. <i>Mechanical Systems and Signal Processing</i> , 2022 , 177, 109310	7.8	1
5	A Study on the Improvement of KOSHA 18001 Utilization in Construction Industry associated with the External Evaluator. <i>Journal of the Korean Society of Safety</i> , 2015 , 30, 135-141		
4	A Case Study on the Improvement of Risk Assessment by Worker-Oriented Safety Circle Discussion in Construction Industry by the Survey. <i>Journal of the Korean Society of Safety</i> , 2016 , 31, 82-88		
3	Analysis of Velocity Structures and Shear Stresses by Parameters and Internal Boundary Conditions of Depth-averaged Flow Model. <i>Journal of the Korean Society of Safety</i> , 2013 , 28, 54-60		
2	Visualization of Delamination Region in Concrete Structures using Mode Shapes of Delaminated Concrete Section (II) : Impact-Echo Test. <i>Journal of the Korean Society of Safety</i> , 2013 , 28, 36-41		
1	Study on Prediction and Application of Initial Chord Elastic Modulus with Resonance Frequency Test of ASTM C 215. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5464	2.6	