Jin-Hak Yi

List of Publications by Citations

69 papers	1,136 citations	16 h-index	32 g-index
73 ext. papers	1,288 ext. citations	2.6 avg, IF	4.22 L-index

#	Paper	IF	Citations
69	Performance monitoring of the Geumdang Bridge using a dense network of high-resolution wireless sensors. *Smart Materials and Structures*, **2006**, 15, 1561-1575	3.4	177
68	Neural networks-based damage detection for bridges considering errors in baseline finite element models. *Journal of Sound and Vibration*, **2005**, 280, 555-578	3.9	160
67	HEALTH-MONITORING METHOD FOR BRIDGES UNDER ORDINARY TRAFFIC LOADINGS. *Journal of Sound and Vibration*, **2002**, 257, 247-264	3.9	95
66	Joint damage assessment of framed structures using a neural networks technique. *Engineering Structures*, **2001**, 23, 425-435	4.7	77
65	Comparative study on modal identification methods using output-only information. *Structural Engineering and Mechanics*, **2004**, 17, 445-466		77
64	Vibration and impedance monitoring for prestress-loss prediction in PSC girder bridges. *Smart Structures and Systems*, **2009**, 5, 81-94		45
63	Sequential damage detection approaches for beams using time-modal features and artificial neural networks. *Journal of Sound and Vibration*, **2009**, 323, 451-474	3.9	40
62	Baseline Models for Bridge Performance Monitoring. *Journal of Engineering Mechanics - ASCE*, **2004**, 130, 562-569	2.4	36
61	Fragility curves of concrete bridges retrofitted by column jacketing. *Earthquake Engineering and Engineering Vibration*, **2002**, 1, 195-205	2	33
60	PDF interpolation technique for seismic fragility analysis of bridges. *Engineering Structures*, **2007**, 29, 1312-1322	4.7	32
59	Evaluation of vertical axis turbine characteristics for tidal current power plant based on in situ experiment. *Ocean Engineering*, **2013**, 65, 83-89	3.9	24
58	Temperature effects on frequency-based damage detection in plate-girder bridges. *KSCE Journal of Civil Engineering*, **2003**, 7, 725-733	1.9	24
57	Vibration-based damage detection in beams using genetic algorithm. *Smart Structures and Systems*, **2007**, 3, 263-280		19
56	Vibration-based damage monitoring of harbor caisson structure with damaged foundation-structure interface. *Smart Structures and Systems*, **2012**, 10, 517-546		18
55	Laboratory tests on local damage detection for jacket-type offshore structures using optical FBG sensors based on statistical approaches. *Ocean Engineering*, **2016**, 124, 94-103	3.9	17
54	Current Policy and Technology for Tidal Current Energy in Korea. *Energies*, **2019**, 12, 1807	3.1	16
53	Experimental study of aerodynamic damping of a twisted supertall building. *Journal of Wind Engineering and Industrial Aerodynamics*, **2018**, 176, 1-12	3.7	15

52	Effects of Water Exposure on the Interfacial Bond between an Epoxy Resin Coating and a Concrete Substrate. *Materials*, **2019**, 12,	3.5	14
51	Modal identification of a jacket-type offshore structure using dynamic tilt responses and investigation of tidal effects on modal properties. *Engineering Structures*, **2013**, 49, 767-781	4.7	14
50	On the natural frequency of tidal current power systems: A discussion of sea testing. *Applied Physics Letters*, **2014**, 105, 023902	3.4	13
49	Natural frequency of bottom-fixed offshore wind turbines considering pile-soil-interaction with material uncertainties and scouring depth. *Wind and Structures, an International Journal*, **2015**, 21, 625-639		13
48	Structural Health Monitoring with Sensor Data and Cosine Similarity for Multi-Damages. *Sensors*, **2019**, 19,	3.8	11
47	Backcalculating pavement structural properties using a Nelder–Mead simplex search. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2009**, 33, 1389-1406	4	11
46	Experimental investigation on the relationship between sluice caisson shape of tidal power plant and the water discharge capability. *Renewable Energy*, **2010**, 35, 2243-2256	8.1	11
45	Structural performance evaluation of a steel-plate girder bridge using ambient acceleration measurements. *Smart Structures and Systems*, **2007**, 3, 281-298		11
44	Vibration-based Structural Health Assessment of a Wind Turbine Tower Using a Wind Turbine Model. *Procedia Engineering*, **2017**, 188, 333-339		10
43	Application of Structural Health Monitoring System for Reliable Seismic Performance Evaluation of Infrastructures. *Advances in Structural Engineering*, **2012**, 15, 955-967	1.9	9
42	Electromechanical impedance-based long-term SHM for jacket-type tidal current power plant structure. *Smart Structures and Systems*, **2015**, 15, 283-297		9
41	Output-only modal identification approach for time-unsynchronized signals from decentralized wireless sensor network for linear structural systems. *Smart Structures and Systems*, **2011**, 7, 59-82		8
40	Numerical investigation on effects of rotor control strategy and wind data on optimal wind turbine blade shape. *Wind and Structures, an International Journal*, **2014**, 18, 195-213		8
39	Impedance-based damage detection for civil infrastructures. *KSCE Journal of Civil Engineering*, **2004**, 8, 425-433	1.9	7
38	Earthquake risk assessment of seismically isolated extradosed bridges with lead rubber bearings. *Structural Engineering and Mechanics*, **2008**, 29, 689-707		7
37	Review of tidal characteristics of Uldolmok Strait and optimal design of blade shape for horizontal axis tidal current turbines. *Renewable and Sustainable Energy Reviews*, **2019**, 113, 109273	16.2	6
36	Field evaluation of optical-based three-dimensional dynamic motion measurement system with multiple targets for a floating structure. *Ocean Engineering*, **2013**, 62, 140-151	3.9	6
35	Periodic seismic performance evaluation of highway bridges using structural health monitoring system. *Structural Engineering and Mechanics*, **2009**, 31, 527-544		5

34	Development of temperature-robust damage factor based on sensor fusion for a wind turbine structure. *Frontiers of Structural and Civil Engineering*, **2015**, 9, 42-47	2.5	4
33	Field Implementation of Wireless Vibration Sensing System for Monitoring of Harbor Caisson Breakwaters. *International Journal of Distributed Sensor Networks*, **2012**, 8, 597546	1.7	4
32	Non-Destructive Evaluation of Coating Thickness Using Water Immersion Ultrasonic Testing. *Coatings*, **2021**, 11, 1421	2.9	4
31	Evaluation of Structural Integrity of Asphalt Pavement System from FWD Test Data Considering Modeling Errors. *Baltic Journal of Road and Bridge Engineering*, **2010**, 5, 10-18	0.9	4
30	Tensile Bond Characteristics between Underwater Coating Materials and Concrete Substrate. *Journal of Korean Society of Coastal and Ocean Engineers*, **2018**, 30, 298-305	0.9	4
29	Ultrasonic Assessment of Thickness and Bonding Quality of Coating Layer Based on Short-Time Fourier Transform and Convolutional Neural Networks. *Coatings*, **2021**, 11, 909	2.9	4
28	Two-Step Indirect Static Deflection Estimation of Bridges Based on Ambient Acceleration Measurements. *Experimental Techniques*, **2013**, 37, 33-45	1.4	3
27	Influence of Characteristic-Soil-Property-Estimation Approach on the Response of Monopiles for Offshore Wind Turbines. *Journal of Ocean and Wind Energy*, **2015**, 2, 160-167		3
26	Flow-Turbine Interaction CFD Analysis for Performance Evaluation of Vertical Axis Tidal Current Turbines (I). *Journal of Ocean Engineering and Technology*, **2013**, 27, 67-72	0.8	3
25	Wave Height and Downtime Event Forecasting in Harbour with Complex Topography Using Auto-Regressive and Artificial Neural Networks Models. *Journal of Korean Society of Coastal and Ocean Engineers*, **2017**, 29, 180-188	0.9	3
24	Interference effects of an adjacent tall building with various sizes on local wind forces acting on a tall building. *Advances in Structural Engineering*, **2018**, 21, 1469-1481	1.9	2
23	Evaluation of Vibration Characteristics of an Existing Harbor Caisson Structure Using Tugboat Impact Tests and Modal Analysis. *International Journal of Distributed Sensor Networks*, **2013**, 9, 806482	1.7	2
22	Structural Health Monitoring System for Uldolmok Tidal Current Power Pilot Plant and Its Applications **2009**,		2
21	Acoustic Characteristics of Underwater Noise from Uldolmok Tidal Current Pilot Power Plant. *Journal of the Acoustical Society of Korea*, **2012**, 31, 523-531		2
20	Impedance-based Long-term Structural Health Monitoring for Tidal Current Power Plant Structure in Noisy Environments. *Journal of Ocean Engineering and Technology*, **2011**, 25, 59-65	0.8	2
19	Long-Term Measurement of Static Strains of Jacket Type Offshore Structure under Severe Tidal Current Environments. *Journal of the Korean Society of Civil Engineers*, **2012**, 32, 389-398		2
18	Flow-Turbine Interaction CFD Analysis for Performance Evaluation of Vertical Axis Tidal Current Turbines (II). *Journal of Ocean Engineering and Technology*, **2013**, 27, 73-78	0.8	2
17	Neural-Network-Based Ultrasonic Inspection of Offshore Coated Concrete Specimens. *Coatings*, **2022**, 12, 773	2.9	2

16	Substructural Identification of Flexural Rigidity for Beam-Like Structures. *Shock and Vibration*, **2015**, 2015, 1-15	1.1	1
15	Recent improvement of optimization methods in a tidal current turbine optimal design tool **2012**,		1
14	Estimation of deflections of bridge by two-step model updating approach based on ambient acceleration measurements **2008**,		1
13	Stochastic optimization techniques for NDE of bridges using vibration signatures **2003**,		1
12	Issues in structural health monitoring for fixed-type offshore structures under harsh tidal environments. *Smart Structures and Systems*, **2015**, 15, 335-353		1
11	Evaluation of Material Properties of Concrete Harbour Facilities Using Nondestructive Testing Methods. *Journal of Korean Society of Coastal and Ocean Engineers*, **2011**, 23, 1-10	0.9	1
10	Reconstruction of Unmeasured Strain Responses in Bottom-fixed Offshore Structures by Multimetric Sensor Data Fusion. *Procedia Engineering*, **2017**, 188, 96-101		
9	Effect of welding heat on precast steel composite hollow columns. *Structural Concrete*, **2014**, 15, 350-360	2.6	
8	Analysis of Extreme Wave Condition for Design of Tidal Energy Converter in the Jang-Juk Waterway. *Journal of the Korean Society for Marine Environment & Energy*, **2020**, 23, 165-172	0.4	
7	Changes in Dynamic Characteristics of Monopile-Type Offshore Structures According to Tidal Environments and Boundary Conditions. *Journal of Ocean Engineering and Technology*, **2014**, 28, 261-267	0.8	
6	Optimal Design of Blade Shape for 200-kW-Class Horizontal Axis Tidal Current Turbines. *Journal of Ocean Engineering and Technology*, **2015**, 29, 366-372	0.8	
5	Reliability Analysis of Offshore Wind Turbines Considering Soil-Pile Interaction and Scouring Effect. *Journal of Korean Society of Coastal and Ocean Engineers*, **2016**, 28, 222-231	0.9	
4	Wind Tunnel Tests for Evaluation of Sliding and Overturning Velocities on Shipping Containers. *Journal of Korean Society of Coastal and Ocean Engineers*, **2017**, 29, 260-268	0.9	
3	Evaluation of Chloride Ion Penetration Characteristics for Concrete Structures at Coastal Area. *Journal of Korean Society of Coastal and Ocean Engineers*, **2011**, 23, 11-17	0.9	
2	Numerical Analysis on the Performance and Wake of Tidal Current Turbine Using ALM and LES. *Journal of the Korean Society for Marine Environment & Energy*, **2021**, 24, 20-31	0.4	
1	A comparative study of laws and policies on supporting marine energy development in China and Korea. *Marine Policy*, **2022**, 141, 105057	3.5	