Jin-Hak Yi

List of Publications by Year
in descending order

73	1,468	430442	329751
papers	citations	18 h-index	37 g-index

73	73	73	1163
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Performance monitoring of the Geumdang Bridge using a dense network of high-resolution wireless sensors. Smart Materials and Structures, 2006, 15, 1561-1575.	1.8	216
2	Neural networks-based damage detection for bridges considering errors in baseline finite element models. Journal of Sound and Vibration, 2005, 280, 555-578.	2.1	201
3	HEALTH-MONITORING METHOD FOR BRIDGES UNDER ORDINARY TRAFFIC LOADINGS. Journal of Sound and Vibration, 2002, 257, 247-264.	2.1	114
4	Joint damage assessment of framed structures using a neural networks technique. Engineering Structures, 2001, 23, 425-435.	2.6	94
5	Comparative study on modal identification methods using output-only information. Structural Engineering and Mechanics, 2004, 17, 445-466.	1.0	92
6	Baseline Models for Bridge Performance Monitoring. Journal of Engineering Mechanics - ASCE, 2004, 130, 562-569.	1.6	53
7	Vibration and impedance monitoring for prestress-loss prediction in PSC girder bridges. Smart Structures and Systems, 2009, 5, 81-94.	1.9	53
8	PDF interpolation technique for seismic fragility analysis of bridges. Engineering Structures, 2007, 29, 1312-1322.	2.6	46
9	Sequential damage detection approaches for beams using time-modal features and artificial neural networks. Journal of Sound and Vibration, 2009, 323, 451-474.	2.1	45
10	Fragility curves of concrete bridges retrofitted by column jacketing. Earthquake Engineering and Engineering Vibration, 2002, 1, 195-205.	1.1	41
11	Evaluation of vertical axis turbine characteristics for tidal current power plant based on in situ experiment. Ocean Engineering, 2013, 65, 83-89.	1.9	34
12	Experimental study of aerodynamic damping of a twisted supertall building. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 176, 1-12.	1.7	31
13	On the natural frequency of tidal current power systemsâ€"A discussion of sea testing. Applied Physics Letters, 2014, 105, .	1.5	29
14	Temperature effects on frequency-based damage detection in plate-girder bridges. KSCE Journal of Civil Engineering, 2003, 7, 725-733.	0.9	27
15	Current Policy and Technology for Tidal Current Energy in Korea. Energies, 2019, 12, 1807.	1.6	23
16	Vibration-based damage detection in beams using genetic algorithm. Smart Structures and Systems, 2007, 3, 263-280.	1.9	21
17	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.	1.9	20
18	Non-Destructive Evaluation of Coating Thickness Using Water Immersion Ultrasonic Testing. Coatings, 2021, 11, 1421.	1.2	20

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19	Structural Health Monitoring with Sensor Data and Cosine Similarity for Multi-Damages. Sensors, 2019, 19, 3047.	2.1	19
20	Vibration-based damage monitoring of harbor caisson structure with damaged foundation-structure interface. Smart Structures and Systems, 2012, 10, 517-546.	1.9	19
21	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.	0.8	19
22	Effects of Water Exposure on the Interfacial Bond between an Epoxy Resin Coating and a Concrete Substrate. Materials, 2019, 12, 3715.	1.3	18
23	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.	2.6	16
24	Vibration-based Structural Health Assessment of a Wind Turbine Tower Using a Wind Turbine Model. Procedia Engineering, 2017, 188, 333-339.	1.2	16
25	Backcalculating pavement structural properties using a Nelderâ€“Mead simplex search. International Journal for Numerical and Analytical Methods in Geomechanics, 2009, 33, 1389-1406.	1.7	12
26	Experimental investigation on the relationship between sluice caisson shape of tidal power plant and the water discharge capability. Renewable Energy, 2010, 35, 2243-2256.	4.3	12
27	Impedance-based damage detection for civil infrastructures. KSCE Journal of Civil Engineering, 2004, 8, 425-433.	0.9	11
28	Application of Structural Health Monitoring System for Reliable Seismic Performance Evaluation of Infrastructures. Advances in Structural Engineering, 2012, 15, 955-967.	1.2	11
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.	1.2	11
30	Structural performance evaluation of a steel-plate girder bridge using ambient acceleration measurements. Smart Structures and Systems, 2007, 3, 281-298.	1.9	11
31	Electromechanical impedance-based long-term SHM for jacket-type tidal current power plant structure. Smart Structures and Systems, 2015, 15, 283-297.	1.9	10
32	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.	8.2	9
33	Earthquake risk assessment of seismically isolated extradosed bridges with lead rubber bearings. Structural Engineering and Mechanics, 2008, 29, 689-707.	1.0	8
34	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.	1.9	8
35	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.	0.8	8
36	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.	1.2	7

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37	Field Implementation of Wireless Vibration Sensing System for Monitoring of Harbor Caisson Breakwaters. International Journal of Distributed Sensor Networks, 2012, 8, 597546.	1.3	6
38	Field evaluation of optical-based three-dimensional dynamic motion measurement system with multiple targets for a floating structure. Ocean Engineering, 2013, 62, 140-151.	1.9	6
39	Neural-Network-Based Ultrasonic Inspection of Offshore Coated Concrete Specimens. Coatings, 2022, 12, 773.	1.2	6
40	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.	1.3	5
41	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.	1.2	5
42	Periodic seismic performance evaluation of highway bridges using structural health monitoring system. Structural Engineering and Mechanics, 2009, 31, 527-544.	1.0	5
43	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.	0.4	5
44	Tensile Bond Characteristics between Underwater Coating Materials and Concrete Substrate. Journal of Korean Society of Coastal and Ocean Engineers, 2018, 30, 298-305.	0.1	5
45	Two-Step Indirect Static Deflection Estimation of Bridges Based on Ambient Acceleration Measurements. Experimental Techniques, 2013, 37, 33-45.	0.9	3
46	Issues in structural health monitoring for fixed-type offshore structures under harsh tidal environments. Smart Structures and Systems, 2015, 15, 335-353.	1.9	3
47	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.	0.7	3
48	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.	0.5	3
49	Acoustic Characteristics of Underwater Noise from Uldolmok Tidal Current Pilot Power Plant. Journal of the Acoustical Society of Korea, 2012, 31, 523-531.	0.1	3
50	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.	0.1	3
51	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.	0.1	3
52	Stochastic optimization techniques for NDE of bridges using vibration signatures. , 2003, , .		2
53	Structural Health Monitoring System for â€œUldolmokâ€•Tidal Current Power Pilot Plant and Its Applications. , 2009, , .		2
54	Recent improvement of optimization methods in a tidal current turbine optimal design tool. , 2012, , .		2

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55	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.	0.5	2
56	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.	0.5	2
57	A comparative study of laws and policies on supporting marine energy development in China and Korea. Marine Policy, 2022, 141, 105057.	1.5	2
58	Estimation of deflections of bridge by two-step model updating approach based on ambient acceleration measurements. , 2008, , .		1
59	Effect of welding heat on precast steel composite hollow columns. Structural Concrete, 2014, 15, 350-360.	1.5	1
60	Substructural Identification of Flexural Rigidity for Beam-Like Structures. Shock and Vibration, 2015, 2015, 1-15.	0.3	1
61	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.	0.1	1
62	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.	0.1	1
63	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.	0.1	1
64	A Study on Performance Characteristics of Horizontal Axis Tidal Turbine Considering Nose Shape, Angle of Inflow and Tower Structure. Journal of Korean Society of Coastal and Ocean Engineers, 2020, 32, 17-25.	0.1	1
65	Wireless vibration-based SHM of caisson-type breakwater under foundation damage. Proceedings of SPIE, 2012, , .	0.8	0
66	Reconstruction of Unmeasured Strain Responses in Bottom-fixed Offshore Structures by Multimetric Sensor Data Fusion. Procedia Engineering, 2017, 188, 96-101.	1.2	0
67	Dynamic Response Analysis of Harbor Caisson Structure Under Various Boundary Conditions. , 2009, , .		0
68	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.	0.1	0
69	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.	0.5	0
70	Optimal Design of Blade Shape for 200-kW-Class Horizontal Axis Tidal Current Turbines. Journal of Ocean Engineering and Technology, 2015, 29, 366-372.	0.5	0
71	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.	0.1	0
72	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.	0.1	0

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73	Identification of Dynamic Characteristics Using Vibration Measurement Data of Saemangeum Mangyeong Offshore Observation Tower and Numerical Model Updating by Pattern Search Method. Journal of Korean Society of Coastal and Ocean Engineers, 2020, 32, 285-295.	0.1	0