Jin-Hak Yi

List of Publications by Year
in descending order

73 papers	1,468 citations	430442 18 h-index	329751 37 g-index
73 all docs	73 docs citations	73 times ranked	1163 citing authors

#	Article	IF	Citations
1	A comparative study of laws and policies on supporting marine energy development in China and Korea. Marine Policy, 2022, 141, 105057.	1.5	2
2	Neural-Network-Based Ultrasonic Inspection of Offshore Coated Concrete Specimens. Coatings, 2022, 12, 773.	1.2	6
3	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
4	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
5	Non-Destructive Evaluation of Coating Thickness Using Water Immersion Ultrasonic Testing. Coatings, 2021, 11, 1421.	1.2	20
6	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
7	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
8	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
9	Structural Health Monitoring with Sensor Data and Cosine Similarity for Multi-Damages. Sensors, 2019, 19, 3047.	2.1	19
10	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
11	Effects of Water Exposure on the Interfacial Bond between an Epoxy Resin Coating and a Concrete Substrate. Materials, 2019, 12, 3715.	1.3	18
12	Current Policy and Technology for Tidal Current Energy in Korea. Energies, 2019, 12, 1807.	1.6	23
13	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
14	Experimental study of aerodynamic damping of a twisted supertall building. Journal of Wind Engineering and Industrial Aerodynamics, 2018, 176, 1-12.	1.7	31
15	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
16	Reconstruction of Unmeasured Strain Responses in Bottom-fixed Offshore Structures by Multimetric Sensor Data Fusion. Procedia Engineering, 2017, 188, 96-101.	1.2	0
17	Vibration-based Structural Health Assessment of a Wind Turbine Tower Using a Wind Turbine Model. Procedia Engineering, 2017, 188, 333-339.	1.2	16
18	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

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19	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
20	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
21	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
22	Substructural Identification of Flexural Rigidity for Beam-Like Structures. Shock and Vibration, 2015, 2015, 1-15.	0.3	1
23	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
24	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
25	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
26	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
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.	0.7	3
28	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
29	On the natural frequency of tidal current power systems—A discussion of sea testing. Applied Physics Letters, 2014, 105, .	1.5	29
30	Effect of welding heat on precast steel composite hollow columns. Structural Concrete, 2014, 15, 350-360.	1.5	1
31	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
32	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
33	Two-Step Indirect Static Deflection Estimation of Bridges Based on Ambient Acceleration Measurements. Experimental Techniques, 2013, 37, 33-45.	0.9	3
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	Recent improvement of optimization methods in a tidal current turbine optimal design tool. , 2012, , .		2
42	Application of Structural Health Monitoring System for Reliable Seismic Performance Evaluation of Infrastructures. Advances in Structural Engineering, 2012, 15, 955-967.	1.2	11
43	Wireless vibration-based SHM of caisson-type breakwater under foundation damage. Proceedings of SPIE, 2012, , .	0.8	0
44	Vibration-based damage monitoring of harbor caisson structure with damaged foundation-structure interface. Smart Structures and Systems, 2012, 10, 517-546.	1.9	19
45	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
46	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
47	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
48	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
49	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
50	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
51	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
52	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
53	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
54	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

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55	Structural Health Monitoring System for â€œUldolmokâ€•Tidal Current Power Pilot Plant and Its Applications. , 2009, , .		2
56	Periodic seismic performance evaluation of highway bridges using structural health monitoring system. Structural Engineering and Mechanics, 2009, 31, 527-544.	1.0	5
57	Vibration and impedance monitoring for prestress-loss prediction in PSC girder bridges. Smart Structures and Systems, 2009, 5, 81-94.	1.9	53
58	Dynamic Response Analysis of Harbor Caisson Structure Under Various Boundary Conditions. , 2009, , .		0
59	Estimation of deflections of bridge by two-step model updating approach based on ambient acceleration measurements. , 2008, , .		1
60	Earthquake risk assessment of seismically isolated extradosed bridges with lead rubber bearings. Structural Engineering and Mechanics, 2008, 29, 689-707.	1.0	8
61	PDF interpolation technique for seismic fragility analysis of bridges. Engineering Structures, 2007, 29, 1312-1322.	2.6	46
62	Vibration-based damage detection in beams using genetic algorithm. Smart Structures and Systems, 2007, 3, 263-280.	1.9	21
63	Structural performance evaluation of a steel-plate girder bridge using ambient acceleration measurements. Smart Structures and Systems, 2007, 3, 281-298.	1.9	11
64	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
65	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
66	Baseline Models for Bridge Performance Monitoring. Journal of Engineering Mechanics - ASCE, 2004, 130, 562-569.	1.6	53
67	Impedance-based damage detection for civil infrastructures. KSCE Journal of Civil Engineering, 2004, 8, 425-433.	0.9	11
68	Comparative study on modal identification methods using output-only information. Structural Engineering and Mechanics, 2004, 17, 445-466.	1.0	92
69	Temperature effects on frequency-based damage detection in plate-girder bridges. KSCE Journal of Civil Engineering, 2003, 7, 725-733.	0.9	27
70	Stochastic optimization techniques for NDE of bridges using vibration signatures. , 2003, , .		2
71	HEALTH-MONITORING METHOD FOR BRIDGES UNDER ORDINARY TRAFFIC LOADINGS. Journal of Sound and Vibration, 2002, 257, 247-264.	2.1	114
72	Fragility curves of concrete bridges retrofitted by column jacketing. Earthquake Engineering and Engineering Vibration, 2002, 1, 195-205.	1.1	41

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73	Joint damage assessment of framed structures using a neural networks technique. Engineering Structures, 2001, 23, 425-435.	2.6	94