

Sungsik Yoon

List of Publications by Year in descending order

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53
papers

1,450
citations

331670

21
h-index

330143

37
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54
all docs

54
docs citations

54
times ranked

1358
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation on the hysteretic dynamics of a regenerative hybrid electrodynamic cable damper. <i>Structure and Infrastructure Engineering</i> , 2024, 20, 407-420.	3.7	0
2	Performance enhancement of an MRE-based isolator using a multi-layered electromagnetic system. <i>Smart Materials and Structures</i> , 2022, 31, 015028.	3.5	3
3	A novel approach to assess the seismic performance of deteriorated bridge structures by employing UAV-based damage detection. <i>Structural Control and Health Monitoring</i> , 2022, 29, .	4.0	9
4	Instant bridge visual inspection using an unmanned aerial vehicle by image capturing and geo-tagging system and deep convolutional neural network. <i>Structural Health Monitoring</i> , 2021, 20, 1760-1777.	7.5	28
5	Three-dimensional image coordinate-based missing region of interest area detection and damage localization for bridge visual inspection using unmanned aerial vehicles. <i>Structural Health Monitoring</i> , 2021, 20, 1462-1475.	7.5	10
6	Flow-based seismic risk assessment of a water transmission network employing probabilistic seismic hazard analysis. <i>Natural Hazards</i> , 2021, 105, 1231-1254.	3.4	2
7	Optimal decision making in post-hazard bridge recovery strategies for transportation networks after seismic events. <i>Geomatics, Natural Hazards and Risk</i> , 2021, 12, 2629-2653.	4.3	3
8	Digital image correlation in dental materials and related research: A review. <i>Dental Materials</i> , 2021, 37, 758-771.	3.5	16
9	Characteristic Test and Electromagnetic Analysis of Regenerative Hybrid Electrodynamic Damper for Vibration Mitigation and Monitoring of Stay Cables. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6078.	2.5	2
10	Accelerated System-Level Seismic Risk Assessment of Bridge Transportation Networks through Artificial Neural Network-Based Surrogate Model. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6476.	2.5	17
11	Flow-Based Optimal System Design of Urban Water Transmission Network under Seismic Conditions. <i>Water Resources Management</i> , 2020, 34, 1971-1990.	3.9	5
12	Tunable yo-yo energy harvester with oblique springs. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2020, 234, 3185-3194.	2.1	2
13	Seismic fragility analysis of a buried pipeline structure considering uncertainty of soil parameters. <i>International Journal of Pressure Vessels and Piping</i> , 2019, 175, 103932.	2.6	28
14	Adaptive Markov chain Monte Carlo algorithms for Bayesian inference: recent advances and comparative study. <i>Structure and Infrastructure Engineering</i> , 2019, 15, 1548-1565.	3.7	10
15	Experimental Investigation on a Cable Structure Equipped with an Electrodynamic Damper and Its Monitoring Strategy through Energy Harvesting. <i>Sensors</i> , 2019, 19, 2631.	3.8	9
16	Uniaxial/biaxial flexure strengths and elastic properties of resin-composite block materials for CAD/CAM. <i>Dental Materials</i> , 2019, 35, 389-401.	3.5	37
17	Feasibility study of an adaptive mount system based on magnetorheological elastomer using real-time hybrid simulation. <i>Journal of Intelligent Material Systems and Structures</i> , 2019, 30, 701-707.	2.5	20
18	A comprehensive framework for seismic risk assessment of urban water transmission networks. <i>International Journal of Disaster Risk Reduction</i> , 2018, 31, 983-994.	3.9	23

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19	The Multiple-Update-Infill Sampling Method Using Minimum Energy Design for Sequential Surrogate Modeling. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 481.	2.5	3
20	Application of Crack Identification Techniques for an Aging Concrete Bridge Inspection Using an Unmanned Aerial Vehicle. <i>Sensors</i> , 2018, 18, 1881.	3.8	162
21	Diagnosis of crack damage on structures based on image processing techniques and R-CNN using unmanned aerial vehicle (UAV). , 2018, , .		14
22	Assessment of speckle-pattern quality in digital image correlation based on gray intensity and speckle morphology. <i>Optics and Lasers in Engineering</i> , 2017, 91, 62-72.	3.8	65
23	Feasibility Study of the Electromagnetic Damper for Cable Structures Using Real-Time Hybrid Simulation. <i>Sensors</i> , 2017, 17, 2499.	3.8	8
24	Renewable Energy Potential by the Application of a Building Integrated Photovoltaic and Wind Turbine System in Global Urban Areas. <i>Energies</i> , 2017, 10, 2158.	3.1	13
25	Design and Experimental Study of an L Shape Piezoelectric Energy Harvester. <i>Shock and Vibration</i> , 2017, 1-8.	0.6	4
26	Traffic Safety Evaluation for Railway Bridges Using Expanded Multisensor Data Fusion. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2016, 31, 749-760.	9.8	26
27	Improving thermoelectric energy harvesting efficiency by using graphene. <i>AIP Advances</i> , 2016, 6, 055027.	1.3	7
28	An enhanced tunable rotational energy harvester with variable stiffness system for low-frequency vibration. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2016, 230, 732-736.	2.1	5
29	A New Building-Integrated Wind Turbine System Utilizing the Building. <i>Energies</i> , 2015, 8, 11846-11870.	3.1	52
30	Experimental Validation of Normalized Uniform Load Surface Curvature Method for Damage Localization. <i>Sensors</i> , 2015, 15, 26315-26330.	3.8	3
31	Development of temperature-robust damage factor based on sensor fusion for a wind turbine structure. <i>Frontiers of Structural and Civil Engineering</i> , 2015, 9, 42-47.	2.9	5
32	A new damage quantification approach for shear-wall buildings using ambient vibration data. <i>Frontiers of Structural and Civil Engineering</i> , 2015, 9, 17-25.	2.9	2
33	Experimental Validation of Visually Servoed Paired Structured Light System (ViSP) for Structural Displacement Monitoring. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014, 19, 1603-1611.	5.8	11
34	Comparative Field Study of Cable Tension Measurement for a Cable-Stayed Bridge. <i>Journal of Bridge Engineering</i> , 2013, 18, 748-757.	2.9	67
35	Feasibility Study of Micro-Wind Turbines for Powering Wireless Sensors on a Cable-Stayed Bridge. <i>Energies</i> , 2012, 5, 3450-3464.	3.1	40
36	Feasibility study on a hybrid mount system with air springs and piezo-stack actuators for microvibration control. <i>Journal of Intelligent Material Systems and Structures</i> , 2012, 23, 515-526.	2.5	20

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37	Multi-resonant energy harvester exploiting high-mode resonances frequency down-shifted by a flexible body beam. Applied Physics Letters, 2012, 101, .	3.3	18
38	Investigation of Applicability of Electromagnetic Energy Harvesting System to Inclined Stay Cable Under Wind Load. IEEE Transactions on Magnetics, 2012, 48, 3478-3481.	2.1	22
39	Modeling of Magneto-Rheological Elastomers for Harmonic Shear Deformation. IEEE Transactions on Magnetics, 2012, 48, 3080-3083.	2.1	62
40	Characterization of actuation properties of magnetorheological elastomers with embedded hard magnetic particles. Journal of Intelligent Material Systems and Structures, 2012, 23, 1049-1054.	2.5	87
41	Application of MR Elastomers for Improving Seismic Protection of Base-Isolated Structures. IEEE Transactions on Magnetics, 2011, 47, 2901-2904.	2.1	67
42	Sub-optimal design procedure of valve-mode magnetorheological fluid dampers for structural control. KSCE Journal of Civil Engineering, 2011, 15, 867-873.	1.9	11
43	Broadband energy-harvesting using a two degree-of-freedom vibrating body. Applied Physics Letters, 2011, 98, .	3.3	172
44	A tunable rotational energy harvester for low frequency vibration. Applied Physics Letters, 2011, 99, .	3.3	34
45	Seismic Performance Analysis of A Smart Base-isolation System Considering Dynamics of MR Elastomers. Journal of Intelligent Material Systems and Structures, 2011, 22, 1439-1450.	2.5	60
46	PERFORMANCE EVALUATION OF AN MR DAMPER-BASED SEMIACTIVE CONTROL SYSTEM OPERATED BY AN ELECTROMAGNETIC INDUCTION DEVICE. , 2011, , .		0
47	Feasibility Test of Adaptive Passive Control System Using MR Fluid Damper with Electromagnetic Induction Part. Journal of Engineering Mechanics - ASCE, 2010, 136, 254-259.	2.9	30
48	Feasibility Study on a New Energy Harvesting Electromagnetic Device Using Aerodynamic Instability. IEEE Transactions on Magnetics, 2009, 45, 4376-4379.	2.1	49
49	Dynamic Characterization of Magneto-Rheological Elastomers in Shear Mode. IEEE Transactions on Magnetics, 2009, 45, 3930-3933.	2.1	39
50	Vibration mitigation of highway isolated bridge using MR damper-based smart passive control system employing an electromagnetic induction part. Structural Control and Health Monitoring, 2009, 16, 613-625.	4.0	23
51	Seismic protection of base-isolated building with nonlinear isolation system using smart passive control strategy. Structural Control and Health Monitoring, 2008, 15, 785-796.	4.0	21
52	Improvement of the Eigenvalue-Counting Method Based on the Argument Principle. Journal of Engineering Mechanics - ASCE, 2008, 134, 907-912.	2.9	0
53	Implementation of Modal Control for Seismically Excited Structures using Magnetorheological Dampers. Journal of Engineering Mechanics - ASCE, 2005, 131, 177-184.	2.9	17