

Billie F Spencer Jr

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,155
citations

471371

17
h-index

434063

31
g-index

31
all docs

31
docs citations

31
times ranked

1048
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation on the mapping for temperature-induced responses of a long-span steel truss arch bridge. <i>Structure and Infrastructure Engineering</i> , 2024, 20, 232-249.	2.0	9
2	Fatigue life evaluation model for high-strength steel wire considering different levels of corrosion. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 409-419.	2.0	6
3	Predictive model for fatigue life in parallel-wire stay cables considering corrosion variability. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 964-977.	2.0	2
4	Fatigue life updating of embedded miter gate anchorages of navigation locks using full-scale laboratory testing. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 1299-1315.	2.0	2
5	Physics-Based Graphics Models in 3D Synthetic Environments as Autonomous Vision-Based Inspection Testbeds. <i>Sensors</i> , 2022, 22, 532.	2.1	27
6	Toward data anomaly detection for automated structural health monitoring: Exploiting generative adversarial nets and autoencoders. <i>Structural Health Monitoring</i> , 2021, 20, 1609-1626.	4.3	88
7	The 1st International Project Competition for Structural Health Monitoring (IPC-SHM, 2020): A summary and benchmark problem. <i>Structural Health Monitoring</i> , 2021, 20, 2229-2239.	4.3	32
8	Development and Validation of a Post-Earthquake Safety Assessment System for High-Rise Buildings Using Acceleration Measurements. <i>Mathematics</i> , 2021, 9, 1758.	1.1	7
9	A Roadmap for Sustainable Smart Trackâ€™s Wireless Continuous Monitoring of Railway Track Condition. <i>Sustainability</i> , 2021, 13, 7456.	1.6	4
10	InstaDam: Open-Source Platform for Rapid Semantic Segmentation of Structural Damage. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 520.	1.3	6
11	Development of Synchronized High-Sensitivity Wireless Accelerometer for Structural Health Monitoring. <i>Sensors</i> , 2020, 20, 4169.	2.1	22
12	Development and full-scale validation of high-fidelity data acquisition on a next-generation wireless smart sensor platform. <i>Advances in Structural Engineering</i> , 2019, 22, 3512-3533.	1.2	32
13	Damage detection in shear buildings using different estimated curvature. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2050.	1.9	14
14	A novel distribution regression approach for data loss compensation in structural health monitoring. <i>Structural Health Monitoring</i> , 2018, 17, 1473-1490.	4.3	34
15	Sudden Event Monitoring of Civil Infrastructure Using Demand-Based Wireless Smart Sensors. <i>Sensors</i> , 2018, 18, 4480.	2.1	32
16	Substructure Hybrid Simulation Boundary Technique Based on Beam/Column Inflection Points. <i>Sustainability</i> , 2018, 10, 2655.	1.6	2
17	Development of a High-Sensitivity Wireless Accelerometer for Structural Health Monitoring. <i>Sensors</i> , 2018, 18, 262.	2.1	75
18	Simultaneous Estimation of Rebar Diameter and Cover Thickness by a GPR-EMI Dual Sensor. <i>Sensors</i> , 2018, 18, 2969.	2.1	37

#	ARTICLE	IF	CITATIONS
19	Free vibration-based system identification using temporal cross-correlations. Structural Control and Health Monitoring, 2018, 25, e2207.	1.9	11
20	Reference-free structural dynamic displacement estimation method. Structural Control and Health Monitoring, 2018, 25, e2209.	1.9	36
21	Inertial mass damper for mitigating cable vibration. Structural Control and Health Monitoring, 2017, 24, e1986.	1.9	87
22	Cross-Correlation-Based Structural System Identification Using Unmanned Aerial Vehicles. Sensors, 2017, 17, 2075.	2.1	61
23	Probabilistic Assessment of High-Throughput Wireless Sensor Networks. Sensors, 2016, 16, 792.	2.1	5
24	Forward-Backward Approach for 3D Event Localization Using Commodity Smartphones for Ubiquitous Context-Aware Applications in Civil and Infrastructure Engineering. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 245-260.	6.3	5
25	Target-free approach for vision-based structural system identification using consumer-grade cameras. Structural Control and Health Monitoring, 2016, 23, 1405-1416.	1.9	196
26	Adaptive position tracking control of electro-hydraulic six-degree-of-freedom driving simulator subject to perturbation. Simulation, 2015, 91, 265-275.	1.1	9
27	Feasibility Study of Micro-Wind Turbines for Powering Wireless Sensors on a Cable-Stayed Bridge. Energies, 2012, 5, 3450-3464.	1.6	40
28	Equivalent modal damping, stiffening and energy exchanges in multi-degree-of-freedom systems with strongly nonlinear attachments. Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics, 2012, 226, 122-146.	0.5	20
29	Semiactive control strategy for smart base isolation utilizing absolute acceleration information. Structural Control and Health Monitoring, 2006, 13, 649-659.	1.9	16
30	Semi-active neurocontrol of a base-isolated benchmark structure. Structural Control and Health Monitoring, 2006, 13, 682-692.	1.9	46
31	Dynamic Modeling of Large-Scale Magnetorheological Damper Systems for Civil Engineering Applications. Journal of Engineering Mechanics - ASCE, 2004, 130, 1107-1114.	1.6	192