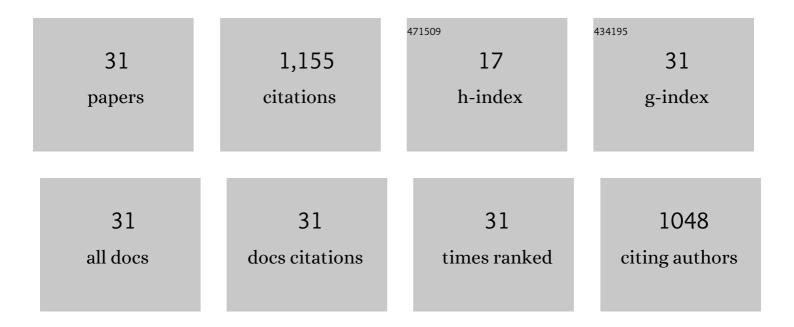
Billie F Spencer Jr

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/11492617/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Target-free approach for vision-based structural system identification using consumer-grade cameras. Structural Control and Health Monitoring, 2016, 23, 1405-1416.	4.0	196
2	Dynamic Modeling of Large-Scale Magnetorheological Damper Systems for Civil Engineering Applications. Journal of Engineering Mechanics - ASCE, 2004, 130, 1107-1114.	2.9	192
3	Toward data anomaly detection for automated structural health monitoring: Exploiting generative adversarial nets and autoencoders. Structural Health Monitoring, 2021, 20, 1609-1626.	7.5	88
4	Inertial mass damper for mitigating cable vibration. Structural Control and Health Monitoring, 2017, 24, e1986.	4.0	87
5	Development of a High-Sensitivity Wireless Accelerometer for Structural Health Monitoring. Sensors, 2018, 18, 262.	3.8	75
6	Cross-Correlation-Based Structural System Identification Using Unmanned Aerial Vehicles. Sensors, 2017, 17, 2075.	3.8	61
7	Semi-active neurocontrol of a base-isolated benchmark structure. Structural Control and Health Monitoring, 2006, 13, 682-692.	4.0	46
8	Feasibility Study of Micro-Wind Turbines for Powering Wireless Sensors on a Cable-Stayed Bridge. Energies, 2012, 5, 3450-3464.	3.1	40
9	Simultaneous Estimation of Rebar Diameter and Cover Thickness by a GPR-EMI Dual Sensor. Sensors, 2018, 18, 2969.	3.8	37
10	Reference-free structural dynamic displacement estimation method. Structural Control and Health Monitoring, 2018, 25, e2209.	4.0	36
11	A novel distribution regression approach for data loss compensation in structural health monitoring. Structural Health Monitoring, 2018, 17, 1473-1490.	7.5	34
12	Sudden Event Monitoring of Civil Infrastructure Using Demand-Based Wireless Smart Sensors. Sensors, 2018, 18, 4480.	3.8	32
13	Development and full-scale validation of high-fidelity data acquisition on a next-generation wireless smart sensor platform. Advances in Structural Engineering, 2019, 22, 3512-3533.	2.4	32
14	The 1st International Project Competition for Structural Health Monitoring (IPC-SHM, 2020): A summary and benchmark problem. Structural Health Monitoring, 2021, 20, 2229-2239.	7.5	32
15	Physics-Based Graphics Models in 3D Synthetic Environments as Autonomous Vision-Based Inspection Testbeds. Sensors, 2022, 22, 532.	3.8	27
16	Development of Synchronized High-Sensitivity Wireless Accelerometer for Structural Health Monitoring. Sensors, 2020, 20, 4169.	3.8	22
17	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.	0.8	20
18	Semiactive control strategy for smart base isolation utilizing absolute acceleration information. Structural Control and Health Monitoring, 2006, 13, 649-659.	4.0	16

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#	Article	IF	CITATIONS
19	Damage detection in shear buildings using different estimated curvature. Structural Control and Health Monitoring, 2018, 25, e2050.	4.0	14
20	Free vibration-based system identification using temporal cross-correlations. Structural Control and Health Monitoring, 2018, 25, e2207.	4.0	11
21	Adaptive position tracking control of electro-hydraulic six-degree-of-freedom driving simulator subject to perturbation. Simulation, 2015, 91, 265-275.	1.8	9
22	Investigation on the mapping for temperature-induced responses of a long-span steel truss arch bridge. Structure and Infrastructure Engineering, 2024, 20, 232-249.	3.7	9
23	Development and Validation of a Post-Earthquake Safety Assessment System for High-Rise Buildings Using Acceleration Measurements. Mathematics, 2021, 9, 1758.	2.2	7
24	Fatigue life evaluation model for high-strength steel wire considering different levels of corrosion. Structure and Infrastructure Engineering, 2023, 19, 409-419.	3.7	6
25	InstaDam: Open-Source Platform for Rapid Semantic Segmentation of Structural Damage. Applied Sciences (Switzerland), 2021, 11, 520.	2.5	6
26	Probabilistic Assessment of High-Throughput Wireless Sensor Networks. Sensors, 2016, 16, 792.	3.8	5
27	Forwardâ€Backward Approach for 3D Event Localization Using Commodity Smartphones for Ubiquitous Contextâ€Aware Applications in Civil and Infrastructure Engineering. Computer-Aided Civil and Infrastructure Engineering, 2016, 31, 245-260.	9.8	5
28	A Roadmap for Sustainable Smart Track—Wireless Continuous Monitoring of Railway Track Condition. Sustainability, 2021, 13, 7456.	3.2	4
29	Substructure Hybrid Simulation Boundary Technique Based on Beam/Column Inflection Points. Sustainability, 2018, 10, 2655.	3.2	2
30	Predictive model for fatigue life in parallel-wire stay cables considering corrosion variability. Structure and Infrastructure Engineering, 2023, 19, 964-977.	3.7	2
31	Fatigue life updating of embedded miter gate anchorages of navigation locks using full-scale laboratory testing. Structure and Infrastructure Engineering, 2023, 19, 1299-1315.	3.7	2