

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

471509

17
h-index

434195

31
g-index

31
all docs

31
docs citations

31
times ranked

1048
citing authors

#	ARTICLE	IF	CITATIONS
1	Target-free approach for vision-based structural system identification using consumer-grade cameras. <i>Structural Control and Health Monitoring</i> , 2016, 23, 1405-1416.	4.0	196
2	Dynamic Modeling of Large-Scale Magnetorheological Damper Systems for Civil Engineering Applications. <i>Journal of Engineering Mechanics - ASCE</i> , 2004, 130, 1107-1114.	2.9	192
3	Toward data anomaly detection for automated structural health monitoring: Exploiting generative adversarial nets and autoencoders. <i>Structural Health Monitoring</i> , 2021, 20, 1609-1626.	7.5	88
4	Inertial mass damper for mitigating cable vibration. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1986.	4.0	87
5	Development of a High-Sensitivity Wireless Accelerometer for Structural Health Monitoring. <i>Sensors</i> , 2018, 18, 262.	3.8	75
6	Cross-Correlation-Based Structural System Identification Using Unmanned Aerial Vehicles. <i>Sensors</i> , 2017, 17, 2075.	3.8	61
7	Semi-active neurocontrol of a base-isolated benchmark structure. <i>Structural Control and Health Monitoring</i> , 2006, 13, 682-692.	4.0	46
8	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
9	Simultaneous Estimation of Rebar Diameter and Cover Thickness by a GPR-EMI Dual Sensor. <i>Sensors</i> , 2018, 18, 2969.	3.8	37
10	Reference-free structural dynamic displacement estimation method. <i>Structural Control and Health Monitoring</i> , 2018, 25, e2209.	4.0	36
11	A novel distribution regression approach for data loss compensation in structural health monitoring. <i>Structural Health Monitoring</i> , 2018, 17, 1473-1490.	7.5	34
12	Sudden Event Monitoring of Civil Infrastructure Using Demand-Based Wireless Smart Sensors. <i>Sensors</i> , 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. <i>Advances in Structural Engineering</i> , 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. <i>Structural Health Monitoring</i> , 2021, 20, 2229-2239.	7.5	32
15	Physics-Based Graphics Models in 3D Synthetic Environments as Autonomous Vision-Based Inspection Testbeds. <i>Sensors</i> , 2022, 22, 532.	3.8	27
16	Development of Synchronized High-Sensitivity Wireless Accelerometer for Structural Health Monitoring. <i>Sensors</i> , 2020, 20, 4169.	3.8	22
17	Equivalent modal damping, stiffening and energy exchanges in multi-degree-of-freedom systems with strongly nonlinear attachments. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 2012, 226, 122-146.	0.8	20
18	Semiactive control strategy for smart base isolation utilizing absolute acceleration information. <i>Structural Control and Health Monitoring</i> , 2006, 13, 649-659.	4.0	16

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