# Stefan Hurlebaus

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 70 papers | 2,097 citations | 236925 25 h-index | 243625 44 g-index |
| 70 all docs | 70 docs citations | 70 times ranked | 1573 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Semiactive nonlinear control of a building with a magnetorheological damper system. Mechanical Systems and Signal Processing, 2009, 23, 300-315. | 8.0 | 132 |
| 2 | Application of semi-active control strategies for seismic protection of buildings with MR dampers. Engineering Structures, 2010, 32, 3040-3047. | 5.3 | 121 |
| 3 | Summary Review of GPS Technology for Structural Health Monitoring. Journal of Structural Engineering, 2013, 139, 1653-1664. | 3.4 | 121 |
| 4 | Optimal design of superelasticâ€friction base isolators for seismic protection of highway bridges against nearâ€field earthquakes. Earthquake Engineering and Structural Dynamics, 2011, 40, 273-291. | 4.4 | 100 |
| 5 | Evaluation of the performance of a sliding-type base isolation system with a NiTi shape memory alloy device considering temperature effects. Engineering Structures, 2010, 32, 238-249. | 5.3 | 97 |
| 6 | Seismic assessment of bridge structures isolated by a shape memory alloy/rubber-based isolation system. Smart Materials and Structures, 2011, 20, 015003. | 3.5 | 92 |
| 7 | Adaptive control of base-isolated structures against near-field earthquakes using variable friction dampers. Engineering Structures, 2011, 33, 3143-3154. | 5.3 | 84 |
| 8 | Robot-Assisted Bridge Inspection. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 64, 77-95. | 3.4 | 84 |
| 9 | Active and Semiâ€active Adaptive Control for Undamaged and Damaged Building Structures Under Seismic Load. Computer-Aided Civil and Infrastructure Engineering, 2012, 27, 48-64. | 9.8 | 80 |
| 10 | Probabilistic Seismic Demand Models and Fragility Estimates for Reinforced Concrete Highway Bridges with One Single-Column Bent. Journal of Engineering Mechanics - ASCE, 2010, 136, 1340-1353. | 2.9 | 72 |
| 11 | Model-Based Multi-input, Multi-output Supervisory Semi-active Nonlinear Fuzzy Controller. Computer-Aided Civil and Infrastructure Engineering, 2010, 25, 387-393. | 9.8 | 70 |
| 12 | A probabilistic damage detection approach using vibration-based nondestructive testing. Structural Safety, 2012, 38, 11-21. | 5.3 | 61 |
| 13 | Probabilistic demand model and performance-based fragility estimates for RC column subject to vehicle collision. Engineering Structures, 2014, 74, 86-95. | 5.3 | 57 |
| 14 | Re-centering variable friction device for vibration control of structures subjected to near-field earthquakes. Mechanical Systems and Signal Processing, 2011, 25, 2849-2862. | 8.0 | 55 |
| 15 | Model-based analysis of dispersion curves using chirplets. Journal of the Acoustical Society of America, 2006, 119, 2122-2130. | 1.1 | 54 |
| 16 | Application of an SMAâ€based hybrid control device to 20â€story nonlinear benchmark building. Earthquake Engineering and Structural Dynamics, 2012, 41, 1831-1843. | 4.4 | 54 |
| 17 | Target-less computer vision for traffic signal structure vibration studies. Mechanical Systems and Signal Processing, 2015, 60-61, 571-582. | 8.0 | 48 |
| 18 | Semi-active adaptive control of seismically excited 20-story nonlinear building. Engineering Structures, 2013, 56, 2107-2118. | 5.3 | 43 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Localization of notches with Lamb waves. Journal of the Acoustical Society of America, 2003, 114, 677-685. | 1.1 | 41 |
| 20 | Smart Layer for Damage Diagnostics. Journal of Intelligent Material Systems and Structures, 2004, 15, 729-736. | 2.5 | 37 |
| 21 | Control of a Seismically Excited Benchmark Building Using Linear Matrix Inequality-Based Semiactive Nonlinear Fuzzy Control. Journal of Structural Engineering, 2010, 136, 1023-1026. | 3.4 | 33 |
| 22 | A Comparative Study on the Seismic Performance of Superelastic-Friction Base Isolators against Near-Field Earthquakes. Earthquake Spectra, 2012, 28, 1147-1163. | 3.1 | 33 |
| 23 | Fuzzy control of piezoelectric friction dampers for seismic protection of smart base isolated buildings. Bulletin of Earthquake Engineering, 2010, 8, 1435-1455. | 4.1 | 31 |
| 24 | Adaptive Control to Mitigate Damage Impact on Structural Response. Journal of Intelligent Material Systems and Structures, 2010, 21, 607-619. | 2.5 | 30 |
| 25 | Development of a Bridge Bumper to Protect Bridge Girders from Overheight Vehicle Impacts. Computer-Aided Civil and Infrastructure Engineering, 2008, 23, 415-426. | 9.8 | 28 |
| 26 | Probabilistic Capacity Models and Fragility Estimates for Reinforced Concrete Columns Incorporating NDT Data. Journal of Engineering Mechanics - ASCE, 2009, 135, 1384-1392. | 2.9 | 25 |
| 27 | Automated methodology to locate notches with Lamb waves. Acoustics Research Letters Online: ARLO, 2001, 2, 97-102. | 0.7 | 24 |
| 28 | Robot-assisted bridge inspection after Hurricane Ike. , 2009, , . | | 24 |
| 29 | MIMO fuzzy identification of building-MR damper systems. Journal of Intelligent and Fuzzy Systems, 2011, 22, 185-205. | 1.4 | 24 |
| 30 | Deterioration data of a large-scale reinforced concrete specimen with severe ASR/DEF deterioration. Construction and Building Materials, 2016, 124, 20-30. | 7.2 | 23 |
| 31 | ASR/DEF related expansion in structural concrete: Model development and validation. Construction and Building Materials, 2016, 128, 238-247. | 7.2 | 22 |
| 32 | Nondestructive evaluation of grout defects in internal tendons of post-tensioned girders. NDT and E International, 2018, 99, 23-35. | 3.7 | 21 |
| 33 | Magnetic flux leakage technique to detect loss in metallic area in external post-tensioning systems. Engineering Structures, 2019, 201, 109765. | 5.3 | 20 |
| 34 | Non-destructive testing methods to identify voids in external post-tensioned tendons. KSCE Journal of Civil Engineering, 2012, 16, 388-397. | 1.9 | 17 |
| 35 | Displacement-Based Compatibility Strut-and-Tie Method and Application to Monotonic and Cyclic Loading. Journal of Structural Engineering, 2016, 142, . | 3.4 | 16 |
| 36 | Simulating behaviour of large reinforced concrete beam-column joints subject to ASR/DEF deterioration and influence of corrosion. Engineering Structures, 2020, 222, 111064. | 5.3 | 15 |

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|---|---|---|---|
| 37 | Wind-induced traffic signal structure response: Experiments and reduction via helical arm strakes. Engineering Structures, 2014, 76, 245-254. | 5.3 | 14 |
| 38 | Damage avoidance solution to mitigate wind-induced fatigue in steel traffic support structures. Journal of Constructional Steel Research, 2017, 138, 298-307. | 3.9 | 13 |
| 39 | Experimental Behavior of Large Reinforced Concrete Specimen with Heavy ASR and DEF Deterioration. Journal of Structural Engineering, 2018, 144, . | 3.4 | 13 |
| 40 | Use of Ultrasonic Tomography to Detect Structural Impairment in Tunnel Linings. Transportation Research Record, 2014, 2407, 20-31. | 1.9 | 12 |
| 41 | Inspection of Voids in External Tendons of Posttensioned Bridges. Transportation Research Record, 2010, 2172, 115-122. | 1.9 | 11 |
| 42 | Smart Structures in Engineering Education. Journal of Professional Issues in Engineering Education and Practice, 2012, 138, 86-94. | 0.9 | 11 |
| 43 | Dual-probe laser interferometer for structural health monitoring. Journal of the Acoustical Society of America, 2006, 119, 1923-1925. | 1.1 | 10 |
| 44 | Adaptive Reliability Analysis of Reinforced Concrete Bridges Subject to Seismic Loading Using Nondestructive Testing. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2015, 1, . | 1.7 | 10 |
| 45 | Fragility analysis of wind-excited traffic signal structures. Engineering Structures, 2015, 101, 652-661. | 5.3 | 10 |
| 46 | Modeling ASR/DEF Expansion Strains in Large Reinforced Concrete Specimens. Journal of Structural Engineering, 2018, 144, 04018085. | 3.4 | 10 |
| 47 | Performance of D-Regions Affected by Alkali-Silica Reaction: Experimental and Analytical Study. Journal of Structural Engineering, 2017, 143, . | 3.4 | 8 |
| 48 | LASER TECHNIQUES TO CHARACTERIZE THE EFFECT OF GEOMETRY ON ACOUSTIC EMISSION SIGNALS. Nondestructive Testing and Evaluation, 1998, 14, 21-37. | 2.1 | 7 |
| 49 | Nondestructive Evaluation of External Post-Tensioning Systems to Detect Grout Defects. Journal of Structural Engineering, 2019, 145, . | 3.4 | 7 |
| 50 | Iterative damage index method for structural health monitoring. Structural Monitoring and Maintenance, 2014, 1, 89-110. | 1.7 | 7 |
| 51 | Inspection Guidelines for Bridge Post-Tensioning and Stay Cable Systems Using NDE Methods. , 2017, , . | | 7 |
| 52 | Seismic response control of a large civil structure equipped with magnetorheological dampers. , 2009, , . | | 6 |
| 53 | Effective Repair Grouting Methods and Materials for Filling Voids in External Posttensioned Tendons. Transportation Research Record, 2010, 2172, 3-10. | 1.9 | 6 |
| 54 | Deflection of FRP Prestressed Concrete Beams. Journal of Composites for Construction, 2018, 22, . | 3.2 | 6 |

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|---|---|---|---|
| 55 | Power Line Monitoring. Proceedings of the American Control Conference, 2007, , . | 0.0 | 5 |
| 56 | Tension Stiffening in Prestressed Concrete Beams Using Moment-Curvature Relationship. Journal of Structural Engineering, 2012, 138, 1075-1078. | 3.4 | 5 |
| 57 | FRP Slab Capacity Using Yield Line Theory. Journal of Composites for Construction, 2014, 18, 04014021. | 3.2 | 5 |
| 58 | A temperature- and strain-rate-dependent model of NiTi shape memory alloys for seismic control of bridges. Proceedings of SPIE, 2009, , . | 0.8 | 4 |
| 59 | Simulation of repair grout flow in external tendon system. KSCE Journal of Civil Engineering, 2012, 16, 1250-1257. | 1.9 | 4 |
| 60 | Systematic Assessment of Nondestructive Evaluation Techniques for Post-Tensioning and Stay Cable Systems. Journal of Infrastructure Systems, 2019, 25, . | 1.8 | 4 |
| 61 | Assessment of modal parameters considering measurement and modeling errors. Smart Structures and Systems, 2015, 15, 717-733. | 1.9 | 4 |
| 62 | Fuzzy Control of Large Civil Structures Subjected to Natural Hazards. , 2009, , 3-20. | | 3 |
| 63 | Nondestructive Evaluation of Non-Strand Defects in Stay Cable Specimens. Transportation Research Record, 2018, 2672, 101-112. | 1.9 | 2 |
| 64 | Alkaliâ€“silica reaction, delayed ettringite formation and corrosion effects on a bridge pier. Proceedings of the Institution of Civil Engineers: Bridge Engineering, 2022, 175, 35-49. | 0.6 | 2 |
| 65 | Closure to â€œDeflection of FRP Prestressed Concrete Beamsâ€•by Shobeir Pirayeh Gar, John B. Mander, and Stefan Hurlebaus. Journal of Composites for Construction, 2019, 23, 07019002. | 3.2 | 1 |
| 66 | Enhanced damage index method using torsion modes of structures. Smart Structures and Systems, 2013, 12, 427-440. | 1.9 | 1 |
| 67 | Calculating the Eigenfrequency of Rotating Acoustic Annulus Inside Labyrinth Seals of Turbomachines. Journal of Engineering for Gas Turbines and Power, 2005, 127, 178-181. | 1.1 | 0 |
| 68 | Optimum design of bridges with superelastic-friction base isolators against near-field earthquakes. , 2010, , . | | 0 |
| 69 | Adequacy of Manitoba concrete bridge rail during truck platoon impacts and associated occupant risks. International Journal of Crashworthiness, 2022, 27, 232-242. | 1.9 | 0 |
| 70 | A Base Study to Investigate MASH Conservativeness of Occupant Risk Evaluation. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering, 2020, 6, . | 1.1 | 0 |