# Tao Yin

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 29 papers | 569 citations | 14 h-index | 23 g-index |
| 32 ext. papers | 657 ext. citations | 4.1 avg, IF | 4.42 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 29 | Sensor placement for model identification of multi-story buildings under unknown earthquake ground motion. *Engineering Structures*, **2022**, 251, 113548 | 4.7 | 1 |
| 28 | A Practical Bayesian Framework for Structural Model Updating and Prediction. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, **2022**, 8, | 1.7 | 1 |
| 27 | Selection of masters in dynamic reduction-based structural health monitoring using Bayesian experimental design. *Mechanical Systems and Signal Processing*, **2021**, 150, 107294 | 7.8 | 3 |
| 26 | Optimal sensor configuration for structural response prediction by a modified Nelder–Mead simplex method. *Structural Control and Health Monitoring*, **2021**, 28, e2712 | 4.5 | 1 |
| 25 | An efficient algorithm for architecture design of Bayesian neural network in structural model updating. *Computer-Aided Civil and Infrastructure Engineering*, **2020**, 35, 354-372 | 8.4 | 18 |
| 24 | A probabilistic approach for the detection of bolt loosening in periodically supported structures endowed with bolted flange joints. *Mechanical Systems and Signal Processing*, **2019**, 128, 588-616 | 7.8 | 9 |
| 23 | Model selection for dynamic reduction-based structural health monitoring following the Bayesian evidence approach. *Mechanical Systems and Signal Processing*, **2019**, 127, 306-327 | 7.8 | 8 |
| 22 | Damage Identification of Periodically-Supported Structures Following the Bayesian Probabilistic Approach. *International Journal of Structural Stability and Dynamics*, **2019**, 19, 1940011 | 1.9 | 13 |
| 21 | A back-analysis method using an intelligent multi-objective optimization for predicting slope deformation induced by excavation. *Engineering Geology*, **2018**, 239, 214-228 | 6 | 21 |
| 20 | Probabilistic Damage Detection of a Steel Truss Bridge Model by Optimally Designed Bayesian Neural Network. *Sensors*, **2018**, 18, | 3.8 | 18 |
| 19 | Entropy-Based Optimal Sensor Placement for Model Identification of Periodic Structures Endowed with Bolted Joints. *Computer-Aided Civil and Infrastructure Engineering*, **2017**, 32, 1007-1024 | 8.4 | 33 |
| 18 | Vibration-based damage detection for structural connections using incomplete modal data by Bayesian approach and model reduction technique. *Engineering Structures*, **2017**, 132, 260-277 | 4.7 | 70 |
| 17 | Flexural wave propagation and localization in periodic jointed tunnels subjected to moving loads. *JVC/Journal of Vibration and Control*, **2016**, 22, 2788-2804 | 2 | 12 |
| 16 | Optimal Tilt Sensor Configuration of Urban Subway Shield Tunnel Structure **2014**, | | 1 |
| 15 | Wave propagation in a periodic elastic-piezoelectric axial-bending coupled beam. *Journal of Sound and Vibration*, **2013**, 332, 6377-6388 | 3.9 | 17 |
| 14 | A New Solution Method for Vibration Analysis of Circular Cylindrical Thin Shells with a Circumferential Surface Crack. *Advanced Materials Research*, **2013**, 639-640, 1003-1009 | 0.5 | 4 |
| 13 | Wave Propagation and Localization in a Randomly Disordered Periodic Piezoelectric Axial-Bending Coupled Beam. *Advances in Structural Engineering*, **2013**, 16, 1513-1522 | 1.9 | 8 |

# List of Publications

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|---|---|---|---|
| 12 | Dynamic Analysis of Finite-Length Circular Cylindrical Shells with a Circumferential Surface Crack. *Journal of Engineering Mechanics - ASCE*, **2013**, 139, 1419-1434 | 2.4 | 14 |
| 11 | Application of two-dimensional spatial wavelet transform in the detection of an obstructed crack on a thin plate. *Structural Control and Health Monitoring*, **2012**, 19, 260-277 | 4.5 | 22 |
| 10 | Optimal Sensor Configuration for Bridge Structures Following a Probabilistic Approach. *Advanced Materials Research*, **2012**, 594-597, 1098-1104 | 0.5 | |
| 9 | Optimal sensor configuration of a typical transmission tower for the purpose of structural model updating. *Structural Control and Health Monitoring*, **2011**, 18, 305-320 | 4.5 | 47 |
| 8 | Dynamic reduction-based structural damage detection of transmission towers: Practical issues and experimental verification. *Engineering Structures*, **2011**, 33, 1459-1478 | 4.7 | 38 |
| 7 | A Bayesian Probabilistic Approach for Crack Characterization in Plate Structures. *Computer-Aided Civil and Infrastructure Engineering*, **2010**, 25, 375-386 | 8.4 | 67 |
| 6 | Vibration Analysis of a Rectangular Thin Plate with Two Parallel Cracks. *Advances in Structural Engineering*, **2010**, 13, 741-753 | 1.9 | 8 |
| 5 | Damage Identification in Frame Structures Based on FE Model Updating. *Journal of Vibration and Acoustics, Transactions of the ASME*, **2010**, 132, | 1.6 | 22 |
| 4 | Statistical detection of multiple cracks on thin plates utilizing dynamic response. *Engineering Structures*, **2010**, 32, 3145-3152 | 4.7 | 31 |
| 3 | Statistical detection of structural damage based on model reduction. *Applied Mathematics and Mechanics (English Edition)*, **2009**, 30, 875-888 | 3.2 | 6 |
| 2 | Dynamic reduction-based structural damage detection of transmission tower utilizing ambient vibration data. *Engineering Structures*, **2009**, 31, 2009-2019 | 4.7 | 58 |
| 1 | Noise analysis for sensitivity-based structural damage detection. *Applied Mathematics and Mechanics (English Edition)*, **2007**, 28, 741-750 | 3.2 | 17 |