# Yong Xia

## List of Publications by Year in descending order



| | | 61857 | 82410 |
|---|---|---|---|
| 186 | 6,467 | 43 | 72 |
| papers | citations | h-index | g-index |

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|---|---|---|---|
| 189 | 189 | 189 | 3226 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | On the generalized trace ratio problem. Optimization, 2023, 72, 2721-2737. | 1.0 | 0 |
| 2 | Sparse damage detection via the elastic net method using modal data. Structural Health Monitoring, 2022, 21, 1076-1092. | 4.3 | 10 |
| 3 | Damping estimation using free decays response in short telecom structures. Advances in Structural Engineering, 2022, 25, 212-228. | 1.2 | 0 |
| 4 | Vibration-Based Structural Damage Detection Using Sparse Bayesian Learning Techniques. Structural Integrity, 2022, , 1-25. | 0.8 | 0 |
| 5 | An analytical method for full-range mechanical behavior of continuous slab-deck in multi-span simply supported concrete bridges. Advances in Structural Engineering, 2022, 25, 98-116. | 1.2 | 2 |
| 6 | Temperature influence on impact protection performance of steel-plastic structuresâ€“Manifested by head impact against pillars of passenger car. International Journal of Impact Engineering, 2022, 159, 104054. | 2.4 | 1 |
| 7 | Model updating of nonlinear structures using substructuring method. Journal of Sound and Vibration, 2022, 521, 116719. | 2.1 | 10 |
| 8 | Influence of pre-straining and heating on strain-rate sensitivity of AA5182-O. International Journal of Impact Engineering, 2022, 161, 104106. | 2.4 | 4 |
| 9 | Analytical formulation of the temperatureâ€induced deformation of multispan suspension bridges. Structural Control and Health Monitoring, 2022, 29, . | 1.9 | 15 |
| 10 | Probability distribution estimation for harmonisable loads and responses of linear elastic structures. Probabilistic Engineering Mechanics, 2022, 68, 103258. | 1.3 | 5 |
| 11 | Mechanical-electrical-thermal responses of lithium-ion pouch cells under dynamic loading: A comparative study between fresh cells and aged ones. International Journal of Impact Engineering, 2022, 166, 104237. | 2.4 | 10 |
| 12 | Knowledge transfer for structural damage detection through re-weighted adversarial domain adaptation. Mechanical Systems and Signal Processing, 2022, 172, 108991. | 4.4 | 17 |
| 13 | Physics-Enhanced PCA for Data Compression in Edge Devices. IEEE Transactions on Green Communications and Networking, 2022, 6, 1624-1634. | 3.5 | 5 |
| 14 | Jaya-Based Long Short-Term Memory Neural Network for Structural Damage Identification with Consideration of Measurement Uncertainties. International Journal of Structural Stability and Dynamics, 2022, 22, . | 1.5 | 3 |
| 15 | Structural damage identification considering uncertainties based on a Jaya algorithm with a local pattern search strategy and L0.5 sparse regularization. Engineering Structures, 2022, 261, 114312. | 2.6 | 15 |
| 16 | Conditional simulation of 3D nonstationary wind field for sea-crossing bridges. Advances in Structural Engineering, 2022, 25, 2508-2526. | 1.2 | 3 |
| 17 | Estimating a joint probability distribution model of fluctuating wind speeds of monsoons from field-measured wind speed data. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 227, 105054. | 1.7 | 2 |
| 18 | Damage of prismatic lithiumâ€ion cells subject to bending: Test, model, and detection. EcoMat, 2022, 4, . | 6.8 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Anomaly detection of sensor faults and extreme events based on support vector data description. Structural Control and Health Monitoring, 2022, 29, . | 1.9 | 12 |
| 20 | Structural damage detection based on variational Bayesian inference and delayed rejection adaptive Metropolis algorithm. Structural Health Monitoring, 2021, 20, 1518-1535. | 4.3 | 23 |
| 21 | Review on the new development of vibration-based damage identification for civil engineering structures: 2010â€“2019. Journal of Sound and Vibration, 2021, 491, 115741. | 2.1 | 248 |
| 22 | Numerical Simulation of a Cable-Stayed Bridge Subjected to Ship Collision. International Journal of Structural Stability and Dynamics, 2021, 21, 2150086. | 1.5 | 4 |
| 23 | System design and demonstration of performance monitoring of a butterflyâ€shaped arch footbridge. Structural Control and Health Monitoring, 2021, 28, e2738. | 1.9 | 7 |
| 24 | Structural damage detection of space frame structures with semi-rigid connections. Engineering Structures, 2021, 235, 112029. | 2.6 | 21 |
| 25 | Kron's substructuring method to the calculation of structural responses and response sensitivities of nonlinear systems. Journal of Sound and Vibration, 2021, 502, 116101. | 2.1 | 7 |
| 26 | Sparse Bayesian factor analysis for structural damage detection under unknown environmental conditions. Mechanical Systems and Signal Processing, 2021, 154, 107563. | 4.4 | 21 |
| 27 | Analytical calculation of temperatureâ€induced strain of supertall structures. Structural Control and Health Monitoring, 2021, 28, e2801. | 1.9 | 0 |
| 28 | Analytical formulas of thermal deformation of suspension bridges. Engineering Structures, 2021, 238, 112228. | 2.6 | 12 |
| 29 | Dynamic condensation approach for response-based finite element model updating of large-scale structures. Journal of Sound and Vibration, 2021, 506, 116176. | 2.1 | 12 |
| 30 | Analytical formulas of beam deflection due to vertical temperature difference. Engineering Structures, 2021, 240, 112366. | 2.6 | 8 |
| 31 | Impedance-based diagnosis of internal mechanical damage for large-format lithium-ion batteries. Energy, 2021, 230, 120855. | 4.5 | 15 |
| 32 | Effect of low-temperature aging on the safety performance of lithium-ion pouch cells under mechanical abuse condition: A comprehensive experimental investigation. Energy Storage Materials, 2021, 40, 268-281. | 9.5 | 25 |
| 33 | Direction-dependent mechanical-electrical-thermal responses of large-format prismatic Li-ion battery under mechanical abuse. Journal of Energy Storage, 2021, 43, 103270. | 3.9 | 19 |
| 34 | Multi-rate data fusion for dynamic displacement measurement of beam-like supertall structures using acceleration and strain sensors. Structural Health Monitoring, 2020, 19, 520-536. | 4.3 | 33 |
| 35 | Theoretical calculation of circular-crested Lamb wave field in single- and multi-layer isotropic plates using the normal mode expansion method. Structural Health Monitoring, 2020, 19, 357-372. | 4.3 | 8 |
| 36 | Testing and modeling tearing and air effect of aluminum honeycomb under out-of-plane impact loading. International Journal of Impact Engineering, 2020, 135, 103402. | 2.4 | 11 |

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| 37 | A review on dynamic substructuring methods for model updating and damage detection of large-scale structures. Advances in Structural Engineering, 2020, 23, 584-600. | 1.2 | 39 |
| 38 | A Survey of Hidden Convex Optimization. Journal of the Operations Research Society of China, 2020, 8, 1-28. | 0.9 | 12 |
| 39 | Experiments and 3D detailed modeling for a pouch battery cell under impact loading. Journal of Energy Storage, 2020, 27, 101016. | 3.9 | 61 |
| 40 | Sandwich Structure Design of a Cooling Fin for Battery Modules Against Impact Loads. Automotive Innovation, 2020, 3, 260-269. | 3.1 | 9 |
| 41 | Review on field monitoring of highâ€rise structures. Structural Control and Health Monitoring, 2020, 27, e2629. | 1.9 | 34 |
| 42 | Temperature-induced structural static responses of a long-span steel box girder suspension bridge. Journal of Zhejiang University: Science A, 2020, 21, 580-592. | 1.3 | 7 |
| 43 | Effect of State-of-Charge and Air Exposure on Tensile Mechanical Properties of Lithium-Ion Battery Electrodes. Journal of the Electrochemical Society, 2020, 167, 090517. | 1.3 | 20 |
| 44 | Laplace approximation in sparse Bayesian learning for structural damage detection. Mechanical Systems and Signal Processing, 2020, 140, 106701. | 4.4 | 16 |
| 45 | Analytical solution to temperature-induced deformation of suspension bridges. Mechanical Systems and Signal Processing, 2020, 139, 106568. | 4.4 | 33 |
| 46 | Condition analysis of expansion joints of a longâ€span suspension bridge through metamodelâ€based model updating considering thermal effect. Structural Control and Health Monitoring, 2020, 27, e2521. | 1.9 | 36 |
| 47 | Role of strain-induced martensitic phase transformation in mechanical response of 304L steel at different strain-rates and temperatures. Journal of Materials Processing Technology, 2020, 280, 116613. | 3.1 | 19 |
| 48 | Sparse Bayesian learning for structural damage detection under varying temperature conditions. Mechanical Systems and Signal Processing, 2020, 145, 106965. | 4.4 | 24 |
| 49 | Structural Analysis of Large-Scale Vertical-Axis Wind Turbines, Part I: Wind Load Simulation. Energies, 2019, 12, 2573. | 1.6 | 6 |
| 50 | Structural Analysis of Large-Scale Vertical Axis Wind Turbines Part II: Fatigue and Ultimate Strength Analyses. Energies, 2019, 12, 2584. | 1.6 | 7 |
| 51 | Multi-scale stochastic dynamic response analysis of offshore risers with lognormal uncertainties. Ocean Engineering, 2019, 189, 106333. | 1.9 | 8 |
| 52 | Stochastic dynamic analysis of marine risers considering fluid-structure interaction and system uncertainties. Engineering Structures, 2019, 198, 109507. | 2.6 | 11 |
| 53 | Efficient calculation and monitoring of temperature actions on supertall structures. Engineering Structures, 2019, 193, 1-11. | 2.6 | 11 |
| 54 | An iterative reduced-order substructuring approach to the calculation of eigensolutions and eigensensitivities. Mechanical Systems and Signal Processing, 2019, 130, 361-377. | 4.4 | 19 |

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| 55 | Mechanism of strengthening of battery resistance under dynamic loading. International Journal of Impact Engineering, 2019, 131, 78-84. | 2.4 | 54 |
| 56 | Sparse Bayesian learning for structural damage detection using expectationâ€“maximization technique. Structural Control and Health Monitoring, 2019, 26, e2343. | 1.9 | 28 |
| 57 | Temperature-induced displacement of supertall structures: A case study. Advances in Structural Engineering, 2019, 22, 982-996. | 1.2 | 8 |
| 58 | Genetic algorithm based optimal sensor placement forL<sub>1</sub>-regularized damage detection. Structural Control and Health Monitoring, 2019, 26, e2274. | 1.9 | 42 |
| 59 | Using polynomial chaos expansion for uncertainty and sensitivity analysis of bridge structures. Mechanical Systems and Signal Processing, 2019, 119, 293-311. | 4.4 | 53 |
| 60 | Sensitivity-Based Finite Element Model Updating Using Dynamic Condensation Approach. International Journal of Structural Stability and Dynamics, 2018, 18, 1840004. | 1.5 | 9 |
| 61 | Selection of regularization parameter for l1-regularized damage detection. Journal of Sound and Vibration, 2018, 423, 141-160. | 2.1 | 72 |
| 62 | Timeâ€varying system identification using variational mode decomposition. Structural Control and Health Monitoring, 2018, 25, e2175. | 1.9 | 60 |
| 63 | Adhesion strength of the cathode in lithium-ion batteries under combined tension/shear loadings. RSC Advances, 2018, 8, 3996-4005. | 1.7 | 48 |
| 64 | Stochastic dynamic analysis of marine risers considering Gaussian system uncertainties. Journal of Sound and Vibration, 2018, 416, 224-243. | 2.1 | 16 |
| 65 | Structural damage detection based onl<sub>1</sub>regularization using natural frequencies and mode shapes. Structural Control and Health Monitoring, 2018, 25, e2107. | 1.9 | 81 |
| 66 | Improved decentralized structural identification with output-only measurements. Measurement: Journal of the International Measurement Confederation, 2018, 122, 597-610. | 2.5 | 23 |
| 67 | Colloidal synthesis of lead-free all-inorganic cesium bismuth bromide perovskite nanoplatelets. CrystEngComm, 2018, 20, 7473-7478. | 1.3 | 44 |
| 68 | Solution-processed solar-blind deep ultraviolet photodetectors based on strongly quantum confined ZnS quantum dots. Journal of Materials Chemistry C, 2018, 6, 11266-11271. | 2.7 | 46 |
| 69 | Comparative study of mechanical-electrical-thermal responses of pouch, cylindrical, and prismatic lithium-ion cells under mechanical abuse. Science China Technological Sciences, 2018, 61, 1472-1482. | 2.0 | 69 |
| 70 | Experimental and Numerical Studies of Debonding Monitoring of FRP Shear-Strengthened Beams Using EMI Technique. Journal of Aerospace Engineering, 2018, 31, . | 0.8 | 25 |
| 71 | State-of-Charge Dependence of Mechanical Response of Lithium-Ion Batteries: A Result of Internal Stress. Journal of the Electrochemical Society, 2018, 165, A1537-A1546. | 1.3 | 61 |
| 72 | Field monitoring and numerical simulation of the thermal actions of a supertall structure. Structural Control and Health Monitoring, 2017, 24, e1900. | 1.9 | 17 |

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| 73 | Vibration of infinite Timoshenko beam on Pasternak foundation under vehicular load. Advances in Structural Engineering, 2017, 20, 694-703. | 1.2 | 1 |
| 74 | Typhoon- and temperature-induced quasi-static responses of a supertall structure. Engineering Structures, 2017, 143, 91-100. | 2.6 | 18 |
| 75 | System ringing in impact test triggered by upper-and-lower yield points of materials. International Journal of Impact Engineering, 2017, 108, 295-302. | 2.4 | 12 |
| 76 | Mechanical damage in a lithium-ion pouch cell under indentation loads. Journal of Power Sources, 2017, 357, 61-70. | 4.0 | 91 |
| 77 | Integration and evaluation of multiple piezo configurations for optimal health monitoring of reinforced concrete structures. Journal of Intelligent Material Systems and Structures, 2017, 28, 2717-2736. | 1.4 | 17 |
| 78 | Dynamic condensation approach to calculation of structural responses and response sensitivities. Mechanical Systems and Signal Processing, 2017, 88, 302-317. | 4.4 | 39 |
| 79 | Failure behaviours of 100% SOC lithium-ion battery modules under different impact loading conditions. Engineering Failure Analysis, 2017, 82, 149-160. | 1.8 | 84 |
| 80 | Excitation mechanism of rainâ€“wind induced cable vibration in a wind tunnel. Journal of Fluids and Structures, 2017, 68, 32-47. | 1.5 | 48 |
| 81 | A low-cost version of electro-mechanical impedance technique for damage detection in reinforced concrete structures using multiple piezo configurations. Advances in Structural Engineering, 2017, 20, 1247-1254. | 1.2 | 17 |
| 82 | Numerical simulation method of thermal analysis for bridges without using field measurements. Procedia Engineering, 2017, 210, 240-245. | 1.2 | 6 |
| 83 | Substructuring Method in Structural Health Monitoring. , 2017, , . | | 1 |
| 84 | Identification of True Stress-Strain Curve of Thermoplastic Polymers under Biaxial Tension. SAE International Journal of Materials and Manufacturing, 2016, 9, 768-775. | 0.3 | 4 |
| 85 | Experimental and Numerical Analysis of the System Ringing in Intermediate Strain Rate Tests. , 2016, , . | | 3 |
| 86 | Construction of orthogonal projector for the damage identification by measured substructural flexibility. Measurement: Journal of the International Measurement Confederation, 2016, 88, 441-455. | 2.5 | 8 |
| 87 | A Rate-Dependent Model for Metals Based on a Master Curve of Normalized Hardening Behavior of DP Steels. Journal of Dynamic Behavior of Materials, 2016, 2, 272-282. | 1.1 | 5 |
| 88 | Thermal correlation analysis of a long-span suspension bridge static responses. , 2016, , . | | 2 |
| 89 | On linearization techniques for budget-constrained binary quadratic programming problems. Operations Research Letters, 2016, 44, 702-705. | 0.5 | 1 |
| 90 | Element-by-element model updating of large-scale structures based on component mode synthesis method. Journal of Sound and Vibration, 2016, 362, 72-84. | 2.1 | 19 |

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| 91 | A closed-form solution to a viscoelastically supported Timoshenko beam under harmonic line load. Journal of Sound and Vibration, 2016, 369, 109-118. | 2.1 | 8 |
| 92 | Temperature Analysis of a Long-Span Suspension Bridge Based on Field Monitoring and Numerical Simulation. Journal of Bridge Engineering, 2016, 21, . | 1.4 | 97 |
| 93 | Design and verification of a strain gauge based load sensor for medium-speed dynamic tests with a hydraulic test machine. International Journal of Impact Engineering, 2016, 88, 139-152. | 2.4 | 37 |
| 94 | Measurement of rivulet movement and thickness on inclined cable using videogrammetry. Smart Structures and Systems, 2016, 18, 485-500. | 1.9 | 7 |
| 95 | Analysis of Dynamic Characteristics of the Canton Tower under Different Earthquakes. Advances in Structural Engineering, 2015, 18, 1087-1100. | 1.2 | 7 |
| 96 | Testing and Modeling the Effect of Strain-Rate on Plastic Anisotropy for a Traditional High Strength Steel. , 2015, , . | | 1 |
| 97 | Study on the role of rivulet in rainâ€“wind-induced cable vibration through wind tunnel testing. Journal of Fluids and Structures, 2015, 59, 316-327. | 1.5 | 26 |
| 98 | Measurement of rivulet movement on inclined cables during rainâ€“wind induced vibration. Sensors and Actuators A: Physical, 2015, 230, 17-24. | 2.0 | 19 |
| 99 | Hysteretic behaviour of tubular T-joints reinforced with doubler plates after fire exposure. Thin-Walled Structures, 2015, 92, 10-20. | 2.7 | 35 |
| 100 | Verification of a multiple-machine program for material testing from quasi-static to high strain-rate. International Journal of Impact Engineering, 2015, 86, 284-294. | 2.4 | 34 |
| 101 | Vibration of Timoshenko beam on hysteretically damped elastic foundation subjected to moving load. Science China: Physics, Mechanics and Astronomy, 2015, 58, 1. | 2.0 | 13 |
| 102 | L<sub>1</sub> regularization approach to structural damage detection using frequency data. Structural Health Monitoring, 2015, 14, 571-582. | 4.3 | 75 |
| 103 | Structural damage and force identification under moving load. Structural Engineering and Mechanics, 2015, 53, 261-276. | 1.0 | 6 |
| 104 | Damage assessment of shear connectors with vibration measurements and power spectral density transmissibility. Structural Engineering and Mechanics, 2015, 54, 257-289. | 1.0 | 15 |
| 105 | Integration of health monitoring and vibration control for smart building structures with time-varying structural parameters and unknown excitations. Smart Structures and Systems, 2015, 15, 807-830. | 1.9 | 10 |
| 106 | Extension of Non-Associated Hill48 Model for Characterizing Dynamic Mechanical Behavior of a Typical High-Strength Steel Sheet. , 2014, , . | | 4 |
| 107 | DAMAGE DETECTION OF SHEAR CONNECTORS IN BRIDGE STRUCTURES WITH TRANSMISSIBILITY IN FREQUENCY DOMAIN. International Journal of Structural Stability and Dynamics, 2014, 14, 1350061. | 1.5 | 41 |
| 108 | Settlement Monitoring of a Supertall Building Using the Kalman Filtering Technique and Forward Construction Stage Analysis. Advances in Structural Engineering, 2014, 17, 881-893. | 1.2 | 12 |

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| 109 | Structural damage measure index based on non-probabilistic reliability model. Journal of Sound and Vibration, 2014, 333, 1344-1355. | 2.1 | 25 |
| 110 | Hybrid reliability analysis of structures with multi-source uncertainties. Acta Mechanica, 2014, 225, 413-430. | 1.1 | 78 |
| 111 | Singular spectrum analysis for enhancing the sensitivity in structural damage detection. Journal of Sound and Vibration, 2014, 333, 392-417. | 2.1 | 43 |
| 112 | Explicit form of an implicit method for inverse force identification. Journal of Sound and Vibration, 2014, 333, 730-744. | 2.1 | 62 |
| 113 | Dynamic condensation approach to the calculation of eigensensitivity. Computers and Structures, 2014, 132, 55-64. | 2.4 | 16 |
| 114 | Influence of flow rule and calibration approach on plasticity characterization of DP780 steel sheets using Hill48 model. International Journal of Mechanical Sciences, 2014, 89, 148-157. | 3.6 | 26 |
| 115 | Deformation monitoring of a super-tall structure using real-time strain data. Engineering Structures, 2014, 67, 29-38. | 2.6 | 74 |
| 116 | Structural Damage Detection Using Auto/Cross-Correlation Functions Under Multiple Unknown Excitations. International Journal of Structural Stability and Dynamics, 2014, 14, 1440006. | 1.5 | 32 |
| 117 | Damage of cells and battery packs due to ground impact. Journal of Power Sources, 2014, 267, 78-97. | 4.0 | 197 |
| 118 | Field monitoring and numerical analysis of Tsing Ma Suspension Bridge temperature behavior. Structural Control and Health Monitoring, 2013, 20, 560-575. | 1.9 | 168 |
| 119 | Long-term structural performance monitoring system for the Shanghai Tower. Journal of Civil Structural Health Monitoring, 2013, 3, 49-61. | 2.0 | 67 |
| 120 | A Note on Legendreâ€“Fenchel Conjugate of the Product of Two Positive-Definite Quadratic Forms. Journal of the Operations Research Society of China, 2013, 1, 333-338. | 0.9 | 1 |
| 121 | Substructuring approach to the calculation of higher-order eigensensitivity. Computers and Structures, 2013, 117, 23-33. | 2.4 | 34 |
| 122 | Damage detection using the eigenparameter decomposition of substructural flexibility matrix. Mechanical Systems and Signal Processing, 2013, 34, 19-38. | 4.4 | 53 |
| 123 | Experimental study on characterizing damage behavior of thermoplastics. Materials & Design, 2013, 44, 199-207. | 5.1 | 18 |
| 124 | Sensor Placement for Structural Damage Detection considering Measurement Uncertainties. Advances in Structural Engineering, 2013, 16, 899-907. | 1.2 | 16 |
| 125 | Construction of Stiffness and Flexibility for Substructure-Based Model Updating. Mathematical Problems in Engineering, 2013, 2013, 1-14. | 0.6 | 9 |
| 126 | MESOSCALE MODELING OF CONCRETE UNDER DYNAMIC SPLIT TENSION. Journal of Earthquake and Tsunami, 2013, 07, 1350028. | 0.7 | 2 |

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| 127 | Two-Step Method for Instability Damage Detection in Tower Body of Transmission Structures. Advances in Structural Engineering, 2013, 16, 219-232. | 1.2 | 11 |
| 128 | Comparisons between Modal-Parameter-Based and Flexibility-Based Damage Identification Methods. Advances in Structural Engineering, 2013, 16, 1611-1619. | 1.2 | 17 |
| 129 | Convex hull of the orthogonal similarity set with applications in quadratic assignment problems. Journal of Industrial and Management Optimization, 2013, 9, 687-699. | 0.8 | 3 |
| 130 | Convex hull of the orthogonal similarity set with applications in quadratic assignment problems. Journal of Industrial and Management Optimization, 2013, 9, 689-701. | 0.8 | 1 |
| 131 | DATA FUSION-BASED STRUCTURAL DAMAGE DETECTION UNDER VARYING TEMPERATURE CONDITIONS. International Journal of Structural Stability and Dynamics, 2012, 12, 1250052. | 1.5 | 22 |
| 132 | Evaluation of Bridge Load Carrying Capacity Using Updated Finite Element Model and Nonlinear Analysis. Advances in Structural Engineering, 2012, 15, 1739-1750. | 1.2 | 13 |
| 133 | A videogrammetric technique for measuring the vibration displacement of stay cables. Geo-Spatial Information Science, 2012, 15, 135-141. | 2.4 | 10 |
| 134 | Dynamic Assessment of Shear Connection Conditions in Slab-Girder Bridges by Kullback-Leibler Distance. Advances in Structural Engineering, 2012, 15, 771-780. | 1.2 | 8 |
| 135 | Inverse substructure method for model updating of structures. Journal of Sound and Vibration, 2012, 331, 5449-5468. | 2.1 | 48 |
| 136 | Testbed for Structural Health Monitoring of Long-Span Suspension Bridges. Journal of Bridge Engineering, 2012, 17, 896-906. | 1.4 | 22 |
| 137 | Temperature effect on vibration properties of civil structures: a literature review and case studies. Journal of Civil Structural Health Monitoring, 2012, 2, 29-46. | 2.0 | 224 |
| 138 | Fatigue assessment of multi-loading suspension bridges using continuum damage model. International Journal of Fatigue, 2012, 40, 27-35. | 2.8 | 27 |
| 139 | Experimental study on influence of section thickness on mechanical behavior of die-cast AM60 magnesium alloy. Materials & Design, 2012, 38, 124-132. | 5.1 | 12 |
| 140 | A Substructuring Method for Model Updating and Damage Identification. Procedia Engineering, 2011, 14, 3095-3103. | 1.2 | 5 |
| 141 | Verification of a Cable Element for Cable Parametric Vibration of One-Cable-Beam System Subject to Harmonic Excitation and Random Excitation. Advances in Structural Engineering, 2011, 14, 589-595. | 1.2 | 7 |
| 142 | Stress Development of a Supertall Structure during Construction: Field Monitoring and Numerical Analysis. Computer-Aided Civil and Infrastructure Engineering, 2011, 26, 542-559. | 6.3 | 66 |
| 143 | Theoretical and experimental modal analysis of the Guangzhou New TV Tower. Engineering Structures, 2011, 33, 3628-3646. | 2.6 | 111 |
| 144 | Fatigue analysis of long-span suspension bridges under multiple loading: Case study. Engineering Structures, 2011, 33, 3246-3256. | 2.6 | 65 |

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| 145 | SHM-based F-AHP bridge rating system with application to Tsing Ma Bridge. Frontiers of Architecture and Civil Engineering in China, 2011, 5, 465-478. | 0.4 | 8 |
| 146 | Substructure based approach to finite element model updating. Computers and Structures, 2011, 89, 772-782. | 2.4 | 81 |
| 147 | Variation of structural vibration characteristics versus non-uniform temperature distribution. Engineering Structures, 2011, 33, 146-153. | 2.6 | 88 |
| 148 | An iterative substructuring approach to the calculation of eigensolution and eigensensitivity. Journal of Sound and Vibration, 2011, 330, 3368-3380. | 2.1 | 52 |
| 149 | Health Checks through Landmark Bridges to Sky-High Structures. Advances in Structural Engineering, 2011, 14, 103-119. | 1.2 | 83 |
| 150 | Random Aggregate Generation and Mesoscale Modeling of Concrete under High Strain Rate Compression. Applied Mechanics and Materials, 2011, 71-78, 733-736. | 0.2 | 2 |
| 151 | Generalization of the statistical moment-based damage detection method. Structural Engineering and Mechanics, 2011, 38, 715-732. | 1.0 | 11 |
| 152 | Parametric oscillation of cables and aerodynamic effect. Frontiers of Architecture and Civil Engineering in China, 2010, 4, 321-325. | 0.4 | 4 |
| 153 | Temperature Monitoring of Tsing Ma Suspension Bridge: Numerical Simulation and Field Measurement. , 2010, , . | | 1 |
| 154 | Statistical damage detection method for frame structures using a confidence interval. Earthquake Engineering and Engineering Vibration, 2010, 9, 133-140. | 1.1 | 3 |
| 155 | Calculation of eigenvalue and eigenvector derivatives with the improved Kron's substructuring method. Structural Engineering and Mechanics, 2010, 36, 37-55. | 1.0 | 29 |
| 156 | CONVEX HULL PRESENTATION OF A QUADRATICALLY CONSTRAINED SET AND ITS APPLICATION IN SOLVING QUADRATIC PROGRAMMING PROBLEMS. Asia-Pacific Journal of Operational Research, 2009, 26, 769-778. | 0.9 | 3 |
| 157 | Technology innovation in developing the structural health monitoring system for Guangzhou New TV Tower. Structural Control and Health Monitoring, 2009, 16, 73-98. | 1.9 | 308 |
| 158 | Development of a high-efficiency modeling technique for weld-bonded steel joints in vehicle structures, Part II: Dynamic experiments and simulations. International Journal of Adhesion and Adhesives, 2009, 29, 427-433. | 1.4 | 17 |
| 159 | Improved substructuring method for eigensolutions of large-scale structures. Journal of Sound and Vibration, 2009, 323, 718-736. | 2.1 | 46 |
| 160 | Experimental Investigation on Statistical Moment-based Structural Damage Detection Method. Structural Health Monitoring, 2009, 8, 555-571. | 4.3 | 39 |
| 161 | Quantitative Study on Frequency Variation with Respect to Structural Temperatures. , 2009, , 707-713. | | 0 |
| 162 | Condition Assessment of Shear Connectors in Slab-Girder Bridges via Vibration Measurements. Journal of Bridge Engineering, 2008, 13, 43-54. | 1.4 | 45 |

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| 163 | Damage Identification of Shear Connectors with Wavelet Packet Energy: Laboratory Test Study. Journal of Structural Engineering, 2008, 134, 832-841. | 1.7 | 40 |
| 164 | Floor location effect on a frame structure damage detetion. Proceedings of SPIE, 2008, , . | 0.8 | 0 |
| 165 | A new statistical moment-based structural damage detection method. Structural Engineering and Mechanics, 2008, 30, 445-466. | 1.0 | 39 |
| 166 | Evaluation of the Effectiveness of Strengthening Intervention by CFRP on MRWA Bridge No. 3014. Journal of Composites for Construction, 2007, 11, 363-374. | 1.7 | 6 |
| 167 | An impedance analysis for crack detection in the Timoshenko beam based on the anti-resonance technique. Acta Mechanica Solida Sinica, 2007, 20, 228-235. | 1.0 | 14 |
| 168 | Dynamic assessment of shear connectors in slabâ€“girder bridges. Engineering Structures, 2007, 29, 1475-1486. | 2.6 | 41 |
| 169 | A new linearization method for quadratic assignment problems. Optimization Methods and Software, 2006, 21, 805-818. | 1.6 | 27 |
| 170 | Auto-Parametric Vibration of a Cable-Stayed-Beam Structure under Random Excitation. Journal of Engineering Mechanics - ASCE, 2006, 132, 279-286. | 1.6 | 50 |
| 171 | Long term vibration monitoring of an RC slab: Temperature and humidity effect. Engineering Structures, 2006, 28, 441-452. | 2.6 | 274 |
| 172 | Stiffness Assessment through Modal Analysis of an RC Slab Bridge before and after Strengthening. Journal of Bridge Engineering, 2006, 11, 590-601. | 1.4 | 22 |
| 173 | Improvement on the iterated IRS method for structural eigensolutions. Journal of Sound and Vibration, 2004, 270, 713-727. | 2.1 | 45 |
| 174 | A new iterative order reduction(IOR) method for eigensolutions of large structures. International Journal for Numerical Methods in Engineering, 2004, 59, 153-172. | 1.5 | 48 |
| 175 | Statistical damage identification of structures with frequency changes. Journal of Sound and Vibration, 2003, 263, 853-870. | 2.1 | 156 |
| 176 | A new eigensolution of structures via dynamic condensation. Journal of Sound and Vibration, 2003, 266, 93-106. | 2.1 | 24 |
| 177 | Vibration-based Damage Detection of Structures by Genetic Algorithm. Journal of Computing in Civil Engineering, 2002, 16, 222-229. | 2.5 | 218 |
| 178 | Damage identification of structures with uncertain frequency and mode shape data. Earthquake Engineering and Structural Dynamics, 2002, 31, 1053-1066. | 2.5 | 130 |
| 179 | Civil structure condition assessment by FE model updating:. Finite Elements in Analysis and Design, 2001, 37, 761-775. | 1.7 | 242 |
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