

Hong Zhang

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Corrosion non-destructive testing of loaded steel strand based on self-magnetic flux leakage effect. <i>Nondestructive Testing and Evaluation</i> , 2022, 37, 56-70. | 2.1 | 10 |
| 2 | Quantitative Detection of Corroded Reinforced Concrete of Different Sizes Based on SMFL. <i>KSCE Journal of Civil Engineering</i> , 2022, 26, 143-154. | 1.9 | 7 |
| 3 | Experimental study on rebar stress measurement based on force-magnetic coupling under excited magnetic field. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 189, 110620. | 5.0 | 4 |
| 4 | Corrosion damage evaluation of loaded steel strand based on self-magnetic flux leakage. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 549, 168998. | 2.3 | 7 |
| 5 | Research on Corrosion Circumferential Area Characterization for Steel Cable Bundle Based on Metal Magnetic Memory. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 2732-2742. | 2.5 | 4 |
| 6 | Bridge deformation prediction based on SHM data using improved VMD and conditional KDE. <i>Engineering Structures</i> , 2022, 261, 114285. | 5.3 | 58 |
| 7 | Study on the Shear Strength of Root-Soil Composite and Root Reinforcement Mechanism. <i>Forests</i> , 2022, 13, 898. | 2.1 | 7 |
| 8 | Aerodynamic Forces on a Bluff Cylinder in Sinusoidal Streamwise Winds with Different Angles of Attack. <i>Buildings</i> , 2022, 12, 1033. | 3.1 | 2 |
| 9 | Research on the Detection of the Broken Wire Damage of a Cable in the Circumferential Directions Based on Self-magnetic Flux Leakage. <i>KSCE Journal of Civil Engineering</i> , 2021, 25, 879-890. | 1.9 | 4 |
| 10 | Nondestructive Testing for Corrosion Evaluation of Metal under Coating. <i>Journal of Sensors</i> , 2021, 2021, 1-16. | 1.1 | 18 |
| 11 | Damage Identification of Long-Span Bridges Using the Hybrid of Convolutional Neural Network and Long Short-Term Memory Network. <i>Algorithms</i> , 2021, 14, 180. | 2.1 | 14 |
| 12 | An SMFL-based non-destructive quantification method for the localized corrosion cross-sectional area of rebar. <i>Corrosion Science</i> , 2021, 192, 109793. | 6.6 | 22 |
| 13 | Influence of cable tension history on the monitoring of cable tension using magnetoelastic inductance method. <i>Structural Health Monitoring</i> , 2021, 20, 3392-3405. | 7.5 | 10 |
| 14 | Permanent deformation limits of long-span track cable-stayed bridges based on service performance analysis. <i>Journal of Low Frequency Noise Vibration and Active Control</i> , 2020, , 146134842097012. | 2.9 | 1 |
| 15 | A Study on the Performance Evaluation of the Corroded Steel Cable by Safety Factor Based on the Strength Condition. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 2227-2234. | 2.5 | 1 |
| 16 | Statistical quantitative evaluation of bending strength of corroded RC beams via SMFL technique. <i>Engineering Structures</i> , 2020, 209, 110168. | 5.3 | 18 |
| 17 | Parameters That Influence Corrosion Detection in Reinforced Concrete Based on Eddy Current Thermography. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-9. | 0.7 | 2 |
| 18 | Cable Tension Monitoring Based on the Elasto-Magnetic Effect and the Self-Induction Phenomenon. <i>Materials</i> , 2019, 12, 2230. | 2.9 | 17 |

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|----|---|-----|-----------|
| 19 | A New Method for Internal Force Detection of Steel Bars Covered by Concrete Based on the Metal Magnetic Memory Effect. <i>Metals</i> , 2019, 9, 661. | 2.3 | 8 |
| 20 | Research on the Method of Predicting Corrosion width of Cables Based on the Spontaneous Magnetic Flux Leakage. <i>Materials</i> , 2019, 12, 2154. | 2.9 | 25 |
| 21 | Quantitative Evaluation of Corrosion Degrees of Steel Bars Based on Self-Magnetic Flux Leakage. <i>Metals</i> , 2019, 9, 952. | 2.3 | 11 |
| 22 | Bearing Capacity Model of Corroded RC Eccentric Compression Columns Based on Hermite Interpolation and Fourier Fitting. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 24. | 2.5 | 18 |
| 23 | Research on Internal Force Detection Method of Steel Bar in Elastic and Yielding Stage Based on Metal Magnetic Memory. <i>Materials</i> , 2019, 12, 1167. | 2.9 | 13 |
| 24 | Experimental analysis of the correlation between bending strength and SMFL of corroded RC beams. <i>Construction and Building Materials</i> , 2019, 214, 594-605. | 7.2 | 27 |
| 25 | Experimental Study on Corrosion of Unstressed Steel Strand based on Metal Magnetic Memory. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 1320-1329. | 1.9 | 19 |
| 26 | Non-Destructive Testing of Steel Corrosion Fluctuation Parameters Based on Spontaneous Magnetic Flux Leakage and Its Relationship with Steel Bar Diameter. <i>Materials</i> , 2019, 12, 4116. | 2.9 | 10 |
| 27 | Design and Practice of Structural Health Monitoring System for Large Span Urban Rail Transit Bridge Based on Internet of Things. , 2019, , . | | 0 |
| 28 | Bridge Structure Deformation Prediction Based on GNSS Data Using Kalman-ARIMA-GARCH Model. <i>Sensors</i> , 2018, 18, 298. | 3.8 | 57 |
| 29 | Quantitative Study on Corrosion of Steel Strands Based on Self-Magnetic Flux Leakage. <i>Sensors</i> , 2018, 18, 1396. | 3.8 | 47 |
| 30 | Experimental Study on Residual Bending Strength of Corroded Reinforced Concrete Beam Based on Micromagnetic Sensor. <i>Sensors</i> , 2018, 18, 2635. | 3.8 | 16 |
| 31 | CORROSION DETECTION OF BRIDGE REINFORCED CONCRETE WITH INDUCTION HEATING AND INFRARED THERMOGRAPHY. <i>International Journal of Robotics and Automation</i> , 2018, 33, . | 0.1 | 4 |
| 32 | The weakened Weibel instability of collimated fast electron beam in nanotube array. <i>Laser and Particle Beams</i> , 2017, 35, 120-125. | 1.0 | 0 |
| 33 | A new judging criterion for corrosion testing of reinforced concrete based on self-magnetic flux leakage. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2017, 54, 123-130. | 0.6 | 18 |
| 34 | Health Monitoring and Evaluation of Long-Span Bridges Based on Sensing and Data Analysis: A Survey. <i>Sensors</i> , 2017, 17, 603. | 3.8 | 27 |
| 35 | THE TESTING SCHEME FOR STEEL CORROSION IN THE REINFORCED CONCRETE VIA NEAR FIELD EFFECT OF METER-BAND WAVE. <i>Progress in Electromagnetics Research Letters</i> , 2017, 66, 127-134. | 0.7 | 1 |
| 36 | ELECTROMAGNETIC RETARDED POTENTIAL INDUCED BY QUANTUM VACUUM POLARIZATION. <i>Progress in Electromagnetics Research M</i> , 2017, 58, 21-27. | 0.9 | 0 |

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|----|---|-----|-----------|
| 37 | EXPERIMENTAL STUDY ON DETECTION OF REBAR CORROSION IN CONCRETE BASED ON METAL MAGNETIC MEMORY. <i>International Journal of Robotics and Automation</i> , 2017, 32, . | 0.1 | 2 |
| 38 | The Non-Destructive Test of Steel Corrosion in Reinforced Concrete Bridges Using a Micro-Magnetic Sensor. <i>Sensors</i> , 2016, 16, 1439. | 3.8 | 63 |
| 39 | Alignment control for a long span urban rail-transit cable-stayed bridge considering dynamic train loads. <i>Science China Technological Sciences</i> , 2016, 59, 1759-1770. | 4.0 | 7 |
| 40 | Discussing the Initial Temperature Difference Correction Method for Vibrational Chord Strain Gauge in Bridge Construction Monitoring. <i>Intelligent Automation and Soft Computing</i> , 2016, 22, 331-339. | 2.1 | 2 |
| 41 | Prediction study on mechanical and thermodynamic properties of orthorhombic Mg ₂ SiO ₄ under high temperature. <i>Physica B: Condensed Matter</i> , 2014, 449, 95-103. | 2.7 | 2 |
| 42 | Study of Tower Surface Crack Size Effect Based on Weibull Theory. <i>Intelligent Automation and Soft Computing</i> , 2013, 19, 581-588. | 2.1 | 2 |
| 43 | Eddy current pulsed phase thermography for subsurface defect quantitatively evaluation. <i>Applied Physics Letters</i> , 2013, 103, . | 3.3 | 37 |
| 44 | Prediction of Bridge Monitoring Information Chaotic Using Time Series Theory by Multi-step BP and RBF Neural Networks. <i>Intelligent Automation and Soft Computing</i> , 2013, 19, 305-314. | 2.1 | 12 |
| 45 | Prediction Of Bridge Life Based On Svm Pattern Recognition. <i>Intelligent Automation and Soft Computing</i> , 2011, 17, 1009-1016. | 2.1 | 5 |
| 46 | A New Safety Evaluation Method For Long-Span Bridges With Tele-Monitoring Systems. <i>Intelligent Automation and Soft Computing</i> , 2010, 16, 635-644. | 2.1 | 1 |