

Xingjian Jing

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8855497/xingjian-jing-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

190
papers

5,620
citations

40
h-index

70
g-index

216
ext. papers

7,059
ext. citations

4.7
avg, IF

6.91
L-index

| # | Paper | IF | Citations |
|-----|---|-------|-----------|
| 190 | A comprehensive review on vibration energy harvesting: Modelling and realization. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 74, 1-18 | 16.2 | 435 |
| 189 | Output-Feedback-Based H_{∞} Control for Vehicle Suspension Systems With Control Delay. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 436-446 | 8.9 | 389 |
| 188 | Fuzzy sampled-data control for uncertain vehicle suspension systems. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 1111-26 | 10.2 | 252 |
| 187 | Magnetorheological fluid dampers: A review on structure design and analysis. <i>Journal of Intelligent Material Systems and Structures</i> , 2012 , 23, 839-873 | 2.3 | 231 |
| 186 | Recent advances in micro-vibration isolation. <i>Mechanical Systems and Signal Processing</i> , 2015 , 56-57, 55-808 | | 222 |
| 185 | Disturbance Observer-Based Adaptive Tracking Control With Actuator Saturation and Its Application. <i>IEEE Transactions on Automation Science and Engineering</i> , 2016 , 13, 868-875 | 4.9 | 145 |
| 184 | An LMI approach to stability of systems with severe time-delay. <i>IEEE Transactions on Automatic Control</i> , 2004 , 49, 1192-1195 | 5.9 | 122 |
| 183 | Adaptive Fuzzy Control for Nonlinear Networked Control Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 2420-2430 | 7.3 | 110 |
| 182 | Theoretical study of the effects of nonlinear viscous damping on vibration isolation of sdf systems. <i>Journal of Sound and Vibration</i> , 2009 , 323, 352-365 | 3.9 | 110 |
| 181 | Multi-direction vibration isolation with quasi-zero stiffness by employing geometrical nonlinearity. <i>Mechanical Systems and Signal Processing</i> , 2015 , 62-63, 149-163 | 7.8 | 109 |
| 180 | Vibration isolation via a scissor-like structured platform. <i>Journal of Sound and Vibration</i> , 2014 , 333, 2404-2420 | 3.920 | 109 |
| 179 | Fuzzy Tracking Control for Nonlinear Networked Systems. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2020-2031 | 10.2 | 97 |
| 178 | A Bioinspired Dynamics-Based Adaptive Tracking Control for Nonlinear Suspension Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 903-914 | 4.8 | 95 |
| 177 | Analysis and design of a nonlinear stiffness and damping system with a scissor-like structure. <i>Mechanical Systems and Signal Processing</i> , 2016 , 66-67, 723-742 | 7.8 | 89 |
| 176 | Vibration isolation by exploring bio-inspired structural nonlinearity. <i>Bioinspiration and Biomimetics</i> , 2015 , 10, 056015 | 2.6 | 81 |
| 175 | Damage detection techniques for wind turbine blades: A review. <i>Mechanical Systems and Signal Processing</i> , 2020 , 141, 106445 | 7.8 | 80 |
| 174 | Beneficial performance of a quasi-zero-stiffness vibration isolator with time-delayed active control. <i>International Journal of Mechanical Sciences</i> , 2014 , 82, 32-40 | 5.5 | 79 |

| | | | |
|-----|--|------|----|
| 173 | A nonlinear vibration isolator achieving high-static-low-dynamic stiffness and tunable anti-resonance frequency band. <i>Mechanical Systems and Signal Processing</i> , 2016 , 80, 166-188 | 7.8 | 74 |
| 172 | Post-capture vibration suppression of spacecraft via a bio-inspired isolation system. <i>Mechanical Systems and Signal Processing</i> , 2018 , 105, 214-240 | 7.8 | 70 |
| 171 | Indirect adaptive fuzzy control for input and output constrained nonlinear systems using a barrier Lyapunov function. <i>International Journal of Adaptive Control and Signal Processing</i> , 2014 , 28, 184-199 | 2.8 | 70 |
| 170 | A 6DOF passive vibration isolator using X-shape supporting structures. <i>Journal of Sound and Vibration</i> , 2016 , 380, 90-111 | 3.9 | 64 |
| 169 | Wind-driven hybridized triboelectric-electromagnetic nanogenerator and solar cell as a sustainable power unit for self-powered natural disaster monitoring sensor networks. <i>Nano Energy</i> , 2018 , 52, 78-87 | 17.1 | 64 |
| 168 | Adaptive fuzzy control of uncertain stochastic nonlinear systems with unknown dead zone using small-gain approach. <i>Fuzzy Sets and Systems</i> , 2014 , 235, 1-24 | 3.7 | 64 |
| 167 | Adaptive tracking control for active suspension systems with non-ideal actuators. <i>Journal of Sound and Vibration</i> , 2017 , 399, 2-20 | 3.9 | 62 |
| 166 | A discrete bacterial algorithm for feature selection in classification of microarray gene expression cancer data. <i>Knowledge-Based Systems</i> , 2017 , 126, 8-19 | 7.3 | 57 |
| 165 | Nonlinear stiffness and dynamical response characteristics of an asymmetric X-shaped structure. <i>Mechanical Systems and Signal Processing</i> , 2019 , 125, 142-169 | 7.8 | 56 |
| 164 | Human body inspired vibration isolation: Beneficial nonlinear stiffness, nonlinear damping & nonlinear inertia. <i>Mechanical Systems and Signal Processing</i> , 2019 , 117, 786-812 | 7.8 | 56 |
| 163 | The transmissibility of vibration isolators with cubic nonlinear damping under both force and base excitations. <i>Journal of Sound and Vibration</i> , 2013 , 332, 1335-1354 | 3.9 | 53 |
| 162 | Frequency domain analysis of a dimensionless cubic nonlinear damping system subject to harmonic input. <i>Nonlinear Dynamics</i> , 2009 , 58, 469-485 | 5 | 53 |
| 161 | Robust finite-time tracking control for nonlinear suspension systems via disturbance compensation. <i>Mechanical Systems and Signal Processing</i> , 2017 , 88, 49-61 | 7.8 | 52 |
| 160 | An Optimal PID Control Algorithm for Training Feedforward Neural Networks. <i>IEEE Transactions on Industrial Electronics</i> , 2013 , 60, 2273-2283 | 8.9 | 52 |
| 159 | Superior nonlinear passive damping characteristics of the bio-inspired limb-like or X-shaped structure. <i>Mechanical Systems and Signal Processing</i> , 2019 , 125, 21-51 | 7.8 | 52 |
| 158 | Vibration isolation using a hybrid lever-type isolation system with an X-shape supporting structure. <i>International Journal of Mechanical Sciences</i> , 2015 , 98, 169-177 | 5.5 | 51 |
| 157 | Nonlinear Characteristic Output Spectrum for Nonlinear Analysis and Design. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014 , 19, 171-183 | 5.5 | 50 |
| 156 | A novel bio-inspired multi-joint anti-vibration structure and its nonlinear HSLDS properties. <i>Mechanical Systems and Signal Processing</i> , 2020 , 138, 106552 | 7.8 | 50 |

| | | | |
|-----|---|------|----|
| 155 | A novel bio-inspired anti-vibration structure for operating hand-held jackhammers. <i>Mechanical Systems and Signal Processing</i> , 2019 , 118, 317-339 | 7.8 | 50 |
| 154 | Band stop vibration suppression using a passive X-shape structured lever-type isolation system. <i>Mechanical Systems and Signal Processing</i> , 2016 , 68-69, 342-353 | 7.8 | 49 |
| 153 | Output frequency properties of nonlinear systems. <i>International Journal of Non-Linear Mechanics</i> , 2010 , 45, 681-690 | 2.8 | 43 |
| 152 | Novel tunable broadband piezoelectric harvesters for ultralow-frequency bridge vibration energy harvesting. <i>Applied Energy</i> , 2019 , 255, 113829 | 10.7 | 42 |
| 151 | Frequency domain analysis for suppression of output vibration from periodic disturbance using nonlinearities. <i>Journal of Sound and Vibration</i> , 2008 , 314, 536-557 | 3.9 | 42 |
| 150 | The parametric characteristic of frequency response functions for nonlinear systems. <i>International Journal of Control</i> , 2006 , 79, 1552-1564 | 1.5 | 40 |
| 149 | A 6-DOF passive vibration isolator based on Stewart structure with X-shaped legs. <i>Nonlinear Dynamics</i> , 2018 , 91, 157-185 | 5 | 39 |
| 148 | Nonlinear influence in the frequency domain: Alternating series. <i>Systems and Control Letters</i> , 2011 , 60, 295-309 | 2.4 | 39 |
| 147 | Output frequency response function-based analysis for nonlinear Volterra systems. <i>Mechanical Systems and Signal Processing</i> , 2008 , 22, 102-120 | 7.8 | 36 |
| 146 | Adaptive fuzzy backstepping dynamic surface control for nonlinear Input-delay systems. <i>Neurocomputing</i> , 2016 , 199, 58-65 | 5.4 | 35 |
| 145 | Formulation of a new gradient descent MARG orientation algorithm: Case study on robot teleoperation. <i>Mechanical Systems and Signal Processing</i> , 2019 , 130, 183-200 | 7.8 | 34 |
| 144 | Vibrational energy harvesting by exploring structural benefits and nonlinear characteristics. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2017 , 48, 288-306 | 3.7 | 32 |
| 143 | New bound characteristics of NARX model in the frequency domain. <i>International Journal of Control</i> , 2007 , 80, 140-149 | 1.5 | 32 |
| 142 | Bio-inspired anti-vibration with nonlinear inertia coupling. <i>Mechanical Systems and Signal Processing</i> , 2019 , 124, 562-595 | 7.8 | 31 |
| 141 | Vibration energy harvesting with a nonlinear structure. <i>Nonlinear Dynamics</i> , 2016 , 84, 2079-2098 | 5 | 30 |
| 140 | Frequency domain analysis and identification of block-oriented nonlinear systems. <i>Journal of Sound and Vibration</i> , 2011 , 330, 5427-5442 | 3.9 | 30 |
| 139 | Mapping from parametric characteristics to generalized frequency response functions of non-linear systems. <i>International Journal of Control</i> , 2008 , 81, 1071-1088 | 1.5 | 30 |
| 138 | Frequency Domain Analysis and Design of Nonlinear Systems based on Volterra Series Expansion. <i>Understanding Complex Systems</i> , 2015 , | 0.4 | 29 |

| | | | |
|-----|--|------|----|
| 137 | Analysis and Design of a Bioinspired Vibration Sensor System in Noisy Environment. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018 , 23, 845-855 | 5.5 | 29 |
| 136 | A Bioinspired Dynamics-Based Adaptive Fuzzy SMC Method for Half-Car Active Suspension Systems With Input Dead Zones and Saturations. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 1743-1755 | 10.2 | 29 |
| 135 | Robust adaptive learning of feedforward neural networks via LMI optimizations. <i>Neural Networks</i> , 2012 , 31, 33-45 | 9.1 | 28 |
| 134 | Behavior dynamics based motion planning of mobile robots in uncertain dynamic environments. <i>Robotics and Autonomous Systems</i> , 2005 , 53, 99-123 | 3.5 | 25 |
| 133 | Accurate modeling and analysis of a bio-inspired isolation system: with application to on-orbit capture. <i>Mechanical Systems and Signal Processing</i> , 2018 , 109, 111-133 | 7.8 | 25 |
| 132 | Adaptive fuzzy decentralized dynamics surface control for nonlinear large-scale systems based on high-gain observer. <i>Information Sciences</i> , 2013 , 235, 287-307 | 7.7 | 24 |
| 131 | Magnitude bounds of generalized frequency response functions for nonlinear Volterra systems described by NARX model. <i>Automatica</i> , 2008 , 44, 838-845 | 5.7 | 24 |
| 130 | Analysis and design of a novel and compact X-structured vibration isolation mount (X-Mount) with wider quasi-zero-stiffness range. <i>Nonlinear Dynamics</i> , 2020 , 101, 2195-2222 | 5 | 24 |
| 129 | Test and simulation the failure characteristics of twin tube shock absorber. <i>Mechanical Systems and Signal Processing</i> , 2019 , 122, 707-719 | 7.8 | 23 |
| 128 | . <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 254-262 | 5.5 | 22 |
| 127 | The Transmissibility of Vibration Isolators With a Nonlinear Antisymmetric Damping Characteristic. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2010 , 132, | 1.6 | 22 |
| 126 | Subharmonics and ultra-subharmonics of a bio-inspired nonlinear isolation system. <i>International Journal of Mechanical Sciences</i> , 2019 , 152, 167-184 | 5.5 | 22 |
| 125 | A magnetorheological fluid embedded pneumatic vibration isolator allowing independently adjustable stiffness and damping. <i>Smart Materials and Structures</i> , 2011 , 20, 085025 | 3.4 | 21 |
| 124 | Frequency domain analysis for non-linear Volterra systems with a general non-linear output function. <i>International Journal of Control</i> , 2008 , 81, 235-251 | 1.5 | 21 |
| 123 | Nonlinear analysis of a bio-inspired vertically asymmetric isolation system under different structural constraints. <i>Nonlinear Dynamics</i> , 2019 , 95, 445-464 | 5 | 21 |
| 122 | A second-order output spectrum approach for fault detection of bolt loosening in a satellite-like structure with a sensor chain. <i>Nonlinear Dynamics</i> , 2017 , 89, 587-606 | 5 | 20 |
| 121 | Modeling and analysis of friction clutch at a driveline for suppressing car starting judder. <i>Journal of Sound and Vibration</i> , 2018 , 424, 335-351 | 3.9 | 20 |
| 120 | A tunable nonlinear vibrational energy harvesting system with scissor-like structure. <i>Mechanical Systems and Signal Processing</i> , 2019 , 125, 202-214 | 7.8 | 20 |

| | | | |
|-----|--|-----|----|
| 119 | Optimal design of control valves in magnetorheological fluid dampers using a nondimensional analytical method. <i>Journal of Intelligent Material Systems and Structures</i> , 2013 , 24, 108-129 | 2.3 | 20 |
| 118 | A nonlinear decomposition and regulation method for nonlinearity characterization. <i>Nonlinear Dynamics</i> , 2016 , 83, 1355-1377 | 5 | 19 |
| 117 | Fuzzy Adaptive Control for Nonlinear Suspension Systems Based on a Bioinspired Reference Model With Deliberately Designed Nonlinear Damping. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 8713-8723 | 8.9 | 19 |
| 116 | Nonlinear vibration analysis of double-layered nanoplates with different boundary conditions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015 , 379, 1532-1537 | 2.3 | 18 |
| 115 | Vibration characteristics of novel multilayer sandwich beams: Modelling, analysis and experimental validations. <i>Mechanical Systems and Signal Processing</i> , 2020 , 142, 106799 | 7.8 | 18 |
| 114 | Improving low-frequency piezoelectric energy harvesting performance with novel X-structured harvesters. <i>Nonlinear Dynamics</i> , 2018 , 94, 1409-1428 | 5 | 18 |
| 113 | Online identification of nonlinear spatiotemporal systems using kernel learning approach. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 1381-94 | | 18 |
| 112 | Fault diagnosis of bolt loosening in structures with a novel second-order output spectrumBased method. <i>Structural Health Monitoring</i> , 2020 , 19, 123-141 | 4.4 | 17 |
| 111 | . <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 5606-5614 | 8.9 | 16 |
| 110 | . <i>IEEE Transactions on Signal Processing</i> , 2013 , 61, 5026-5038 | 4.8 | 16 |
| 109 | Parametric Characteristic Analysis for Generalized Frequency Response Functions of Nonlinear Systems. <i>Circuits, Systems, and Signal Processing</i> , 2009 , 28, 699-733 | 2.2 | 16 |
| 108 | Active Vibration Control of Composite Pyramidal Lattice Truss Core Sandwich Plates. <i>Journal of Aerospace Engineering</i> , 2018 , 31, 04017097 | 1.4 | 16 |
| 107 | Nonlinear vibration energy harvesting with adjustable stiffness, damping and inertia. <i>Nonlinear Dynamics</i> , 2017 , 88, 79-95 | 5 | 15 |
| 106 | Critical factors in designing a class of X-shaped structures for vibration isolation. <i>Engineering Structures</i> , 2019 , 199, 109659 | 4.7 | 15 |
| 105 | A sensor network based virtual beam-like structure method for fault diagnosis and monitoring of complex structures with Improved Bacterial Optimization. <i>Mechanical Systems and Signal Processing</i> , 2017 , 84, 15-38 | 7.8 | 15 |
| 104 | On the Generalized Frequency Response Functions of Volterra Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2009 , 131, | 1.6 | 15 |
| 103 | Determination of the analytical parametric relationship for output spectrum of Volterra systems based on its parametric characteristics. <i>Journal of Mathematical Analysis and Applications</i> , 2009 , 351, 694-706 | 1.1 | 15 |
| 102 | Vibration isolation analysis of clutches based on trouble shooting of vehicle accelerating noise. <i>Journal of Sound and Vibration</i> , 2016 , 382, 84-99 | 3.9 | 15 |

| | | | |
|-----|--|------|----|
| 101 | Bio-inspired anti-impact manipulator for capturing non-cooperative spacecraft: theory and experiment. <i>Mechanical Systems and Signal Processing</i> , 2020 , 142, 106785 | 7.8 | 14 |
| 100 | Truncation order and its effect in a class of nonlinear systems. <i>Automatica</i> , 2012 , 48, 2978-2985 | 5.7 | 14 |
| 99 | Adaptive Neural Network Tracking Control for Double-Pendulum Tower Crane Systems With Nonideal Inputs. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-17 | 7.3 | 14 |
| 98 | Bioinspired Nonlinear Dynamics-Based Adaptive Neural Network Control for Vehicle Suspension Systems With Uncertain/Unknown Dynamics and Input Delay. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 12646-12656 | 8.9 | 14 |
| 97 | Nonlinear responses and stability analysis of viscoelastic nanoplate resting on elastic matrix under 3:1 internal resonances. <i>International Journal of Mechanical Sciences</i> , 2017 , 128-129, 94-104 | 5.5 | 13 |
| 96 | An SIMO Nonlinear System Approach to Analysis and Design of Vehicle Suspensions. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 3098-3111 | 5.5 | 12 |
| 95 | Online Identification of Nonlinear Stochastic Spatiotemporal System With Multiplicative Noise by Robust Optimal Control-Based Kernel Learning Method. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 389-404 | 10.3 | 10 |
| 94 | Estimation of parametric convergence bounds for Volterra series expansion of nonlinear systems. <i>Mechanical Systems and Signal Processing</i> , 2014 , 45, 28-48 | 7.8 | 10 |
| 93 | Artificial coordinating field and its application to motion planning of robots in uncertain dynamic environments. <i>Science in China Series D: Earth Sciences</i> , 2004 , 47, 577 | | 10 |
| 92 | A novel second-order output spectrum based local tuning method for locating bolt-loosening faults. <i>Mechanical Systems and Signal Processing</i> , 2021 , 147, 107104 | 7.8 | 10 |
| 91 | . <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 1-1 | 5.5 | 9 |
| 90 | Vibration signalBased fault diagnosis in complex structures: A beam-like structure approach. <i>Structural Health Monitoring</i> , 2018 , 17, 472-493 | 4.4 | 9 |
| 89 | Frequency-Dependent Magnitude Bounds of the Generalized Frequency Response Functions for NARX Model. <i>European Journal of Control</i> , 2009 , 15, 68-83 | 2.5 | 9 |
| 88 | Effect of thermal protection system size on aerothermoelastic stability of the hypersonic panel. <i>Aerospace Science and Technology</i> , 2020 , 106, 106170 | 4.9 | 9 |
| 87 | Modelling of the rotational vibrations of the engine front-end accessory drive system: a generic method. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2017 , 231, 1780-1795 | 1.4 | 8 |
| 86 | Design of a quasi-zero-stiffness based sensor system for the measurement of absolute vibration displacement of moving platforms. <i>Smart Materials and Structures</i> , 2016 , 25, 097002 | 3.4 | 8 |
| 85 | Identification of partially known non-linear stochastic spatio-temporal dynamical systems by using a novel partially linear Kernel method. <i>IET Control Theory and Applications</i> , 2015 , 9, 21-33 | 2.5 | 8 |
| 84 | Coding characteristics of spiking local interneurons during imposed limb movements in the locust. <i>Journal of Neurophysiology</i> , 2010 , 103, 603-15 | 3.2 | 8 |

| | | | |
|----|---|------|---|
| 83 | An H _∞ control approach to robust learning of feedforward neural networks. <i>Neural Networks</i> , 2011 , 24, 759-66 | 9.1 | 8 |
| 82 | Systematic design of a magneto-rheological fluid embedded pneumatic vibration isolator subject to practical constraints. <i>Smart Materials and Structures</i> , 2012 , 21, 035006 | 3.4 | 8 |
| 81 | Preparation and Tests of MR Fluids With CI Particles Coated With MWNTs. <i>Frontiers in Materials</i> , 2018 , 5, | 4 | 8 |
| 80 | A nonlinear X-shaped structure based tuned mass damper with multi-variable optimization (X-absorber). <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2021 , 99, 105829 | 3.7 | 8 |
| 79 | A bistable X-structured electromagnetic wave energy converter with a novel mechanical-motion-rectifier: Design, analysis, and experimental tests. <i>Energy Conversion and Management</i> , 2021 , 244, 114466 | 10.6 | 8 |
| 78 | Nonlinear passive damping of the X-shaped structure. <i>Procedia Engineering</i> , 2017 , 199, 1701-1706 | | 7 |
| 77 | A Novel Characteristic Parameter Approach for Analysis and Design of Linear Components in Nonlinear Systems. <i>IEEE Transactions on Signal Processing</i> , 2016 , 64, 2528-2540 | 4.8 | 7 |
| 76 | The interior working mechanism and temperature characteristics of a fluid based micro-vibration isolator. <i>Journal of Sound and Vibration</i> , 2016 , 360, 1-16 | 3.9 | 7 |
| 75 | In-situ adjustable nonlinear passive stiffness using X-shaped mechanisms. <i>Mechanical Systems and Signal Processing</i> , 2021 , 170, 108267 | 7.8 | 7 |
| 74 | Switching logic-based saturated tracking control for active suspension systems based on disturbance observer and bioinspired X-dynamics. <i>Mechanical Systems and Signal Processing</i> , 2021 , 155, 107611 | 7.8 | 7 |
| 73 | Kinematic modeling and constraint analysis for robotic excavator operations in piling construction. <i>Automation in Construction</i> , 2021 , 126, 103666 | 9.6 | 7 |
| 72 | Global decentralized output-feedback stabilization of large-scale stochastic high-order nonlinear systems with multi-delays. <i>Journal of the Franklin Institute</i> , 2016 , 353, 3944-3965 | 4 | 7 |
| 71 | On Convergence of Volterra Series Expansion of a Class of Nonlinear Systems. <i>Asian Journal of Control</i> , 2017 , 19, 1089-1102 | 1.7 | 6 |
| 70 | A tracked robot with novel bio-inspired passive "legs". <i>Robotics and Biomimetics</i> , 2017 , 4, 18 | | 6 |
| 69 | Modeling and dynamic analysis of accessory drive systems with integrated starter generator for micro-hybrid vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2019 , 233, 1162-1177 | 1.4 | 6 |
| 68 | Autonomous Navigation of a Tracked Mobile Robot With Novel Passive Bio-Inspired Suspension. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 2633-2644 | 5.5 | 6 |
| 67 | An integrated nonlinear passive vibration control system and its vibration reduction properties. <i>Journal of Sound and Vibration</i> , 2021 , 509, 116231 | 3.9 | 6 |
| 66 | Fault diagnosis of sensor networked structures with multiple faults using a virtual beam based approach. <i>Journal of Sound and Vibration</i> , 2017 , 399, 308-329 | 3.9 | 5 |

| | | | |
|----|---|------|---|
| 65 | Fault Detection Based on a Bio-Inspired Vibration Sensor System. <i>IEEE Access</i> , 2018 , 6, 10867-10877 | 3.5 | 5 |
| 64 | The second-order output spectrum-based method for fault localization in ring type structures. <i>Nonlinear Dynamics</i> , 2019 , 98, 1935-1955 | 5 | 5 |
| 63 | Study on Structures Incorporated With MR Damping Material Based on PSO Algorithm. <i>Frontiers in Materials</i> , 2019 , 6, | 4 | 4 |
| 62 | A systematic second-order output spectrum based method for fault diagnosis with a local tuning approach. <i>Journal of Sound and Vibration</i> , 2020 , 475, 115283 | 3.9 | 4 |
| 61 | Identification of Nonlinear Spatiotemporal Dynamical Systems With Nonuniform Observations Using Reproducing-Kernel-Based Integral Least Square Regulation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2016 , 27, 2399-2412 | 10.3 | 4 |
| 60 | Nonlinear mechanics of flexible cables in space robotic arms subject to complex physical environment. <i>Nonlinear Dynamics</i> , 2018 , 94, 649-667 | 5 | 4 |
| 59 | Understanding neuronal systems in movement control using Wiener/Volterra kernels: a dominant feature analysis. <i>Journal of Neuroscience Methods</i> , 2012 , 203, 220-32 | 3 | 4 |
| 58 | Identification of non-linear stochastic spatiotemporal dynamical systems. <i>IET Control Theory and Applications</i> , 2013 , 7, 2069-2083 | 2.5 | 4 |
| 57 | A compact X-shaped mechanism based 3-DOF anti-vibration unit with enhanced tunable QZS property. <i>Mechanical Systems and Signal Processing</i> , 2022 , 168, 108651 | 7.8 | 4 |
| 56 | Field measurements of the harvestable power potentiality of an off-road sport-utility vehicle. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 179, 109381 | 4.6 | 4 |
| 55 | Theoretical and Experimental Research of Viscoelastic Damping Limb-Like-Structure Device with Coupling Nonlinear Characteristics. <i>International Journal of Structural Stability and Dynamics</i> , 2130002 | 1.9 | 4 |
| 54 | Adaptive tracking control for stochastic mechanical systems with actuator nonlinearities. <i>Journal of the Franklin Institute</i> , 2017 , 354, 2725-2741 | 4 | 3 |
| 53 | A multi-virtual-output approach to frequency domain analysis of exponential-type nonlinear systems. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2017 , 1-13 | 3.9 | 3 |
| 52 | Biomimetic design of woodpecker for shock and vibration protection 2014 , | | 3 |
| 51 | Artificial coordinating field based coordinating collision avoidance | | 3 |
| 50 | Model-free saturated PD-SMC method for 4-DOF tower crane systems. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1 | 8.9 | 3 |
| 49 | X-shaped mechanism based enhanced tunable QZS property for passive vibration isolation. <i>International Journal of Mechanical Sciences</i> , 2022 , 218, 107077 | 5.5 | 3 |
| 48 | Necessary and Sufficient Conditions on Negative Imaginariness for Interval SISO Transfer Functions and Their Interconnection. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 4362-4368 | 5.9 | 3 |

| | | | |
|----|--|------|---|
| 47 | Bacterial-inspired feature selection algorithm and its application in fault diagnosis of complex structures 2016 , | | 3 |
| 46 | Parameter identification of nonlinear bistable piezoelectric structures by two-stage subspace method. <i>Nonlinear Dynamics</i> , 2021 , 105, 2157-2172 | 5 | 3 |
| 45 | Characterization and implementation of a double-sided arm-toothed indirect-drive rotary electromagnetic energy-harvesting shock absorber in a full semi-trailer truck suspension platform. <i>Energy</i> , 2022 , 239, 121976 | 7.9 | 3 |
| 44 | Computation of Parametric Convergence Bound and Parametric Convergence Margin for Volterra series expansion 2013 , | | 2 |
| 43 | Correction on some typos in New bound characteristics of NARX model in the frequency domain <i>International Journal of Control</i> , 2007 , 80, 492-494 | 1.5 | 2 |
| 42 | Frequency Domain Analysis Based Nonlinear Feedback Control for Suppressing Periodic Disturbance 2006 , | | 2 |
| 41 | Local minima-free design of artificial coordinating fields. <i>Journal of Control Theory and Applications</i> , 2004 , 2, 371-380 | | 2 |
| 40 | Energy-Saving Robust Saturated Control for Active Suspension Systems via Employing Beneficial Nonlinearity and Disturbance. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP, | 10.2 | 2 |
| 39 | On positive realness and negative imaginarity of uncertain discrete-time state-space symmetric systems. <i>International Journal of Systems Science</i> , 2020 , 51, 1406-1417 | 2.3 | 1 |
| 38 | Necessary and sufficient conditions for lossless negative imaginary systems. <i>Journal of the Franklin Institute</i> , 2020 , 357, 2330-2353 | 4 | 1 |
| 37 | An optimized virtual beam-based event-oriented algorithm for multiple fault localization in vibrating structures. <i>Nonlinear Dynamics</i> , 2018 , 91, 2293-2318 | 5 | 1 |
| 36 | Robust Online Learning Method Based on Dynamical Linear Quadratic Regulator. <i>IEEE Access</i> , 2019 , 7, 117780-117795 | 3.5 | 1 |
| 35 | A bio-inspired structure for vibration isolation 2015 , | | 1 |
| 34 | An Improved ZMP-Based CPG Model of Bipedal Robot Walking Searched by SaDE. <i>ISRN Robotics</i> , 2014 , 2014, 1-16 | | 1 |
| 33 | A frequency-domain approach to crack-related fault detection 2014 , | | 1 |
| 32 | Control of behavior dynamics for motion planning of mobile robots in uncertain environments | | 1 |
| 31 | Online Kernel Learning With Adaptive Bandwidth by Optimal Control Approach. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021 , 32, 1920-1934 | 10.3 | 1 |
| 30 | Distributed Sampled-Data Nonfragile Consensus Filtering over Sensor Networks with Topology Switching and Transmission Delay. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 1-1 | 5.5 | 1 |

| | | | | |
|----|--|-----|--|---|
| 29 | 2018, | | | 1 |
| 28 | Transmissibility function-based fault diagnosis methods for beam-like engineering structures: a review of theory and properties. <i>Nonlinear Dynamics</i> ,1 | 5 | | 1 |
| 27 | Vibration isolation with passive linkage mechanisms. <i>Nonlinear Dynamics</i> ,1 | 5 | | 1 |
| 26 | Biomimetic omnidirectional multi-tail underwater robot. <i>Mechanical Systems and Signal Processing</i> , 2022 , 173, 109056 | 7.8 | | 1 |
| 25 | Analysis of an Arm-Toothed Rotary Electromagnetic Energy-Harvesting Damper. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 303-318 | 0.2 | | 0 |
| 24 | A New Design of Asynchronous Observer-Based Output-Feedback Control for Piecewise-Affine Systems 2019 , 3, 338-343 | | | 0 |
| 23 | A Novel Bio-Inspired Polygon-Shaped Passive Vibration Isolator. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 888-901 | 0.2 | | 0 |
| 22 | A novel frequency domain feature-based approach for diagnosis of failure faults in complex structures with interconnected joints. <i>Mechanical Systems and Signal Processing</i> , 2022 , 173, 109064 | 7.8 | | 0 |
| 21 | Low-frequency multi-direction vibration isolation via a new arrangement of the X-shaped linkage mechanism. <i>Nonlinear Dynamics</i> ,1 | 5 | | 0 |
| 20 | Saturated PD-SMC method for suspension systems by exploiting beneficial nonlinearities for improved vibration reduction and energy-saving performance. <i>Mechanical Systems and Signal Processing</i> , 2022 , 179, 109376 | 7.8 | | 0 |
| 19 | Bio-inspired structure reference model oriented robust full vehicle active suspension system control via constraint-following. <i>Mechanical Systems and Signal Processing</i> , 2022 , 179, 109368 | 7.8 | | 0 |
| 18 | Using Nonlinearity for Output Vibration Suppression: An Application Study. <i>Understanding Complex Systems</i> , 2015 , 179-205 | 0.4 | | |
| 17 | A Novel Sliding Mode Control Method for Tower Crane Systems by Employing Beneficial Disturbance Effects. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 57-69 | 0.2 | | |
| 16 | Analysis and Design of an X-Structured Nonlinear Energy Harvesting System: A Volterra Series-Based Frequency Domain Method. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 70-81 | 0.2 | | |
| 15 | Identification of Stiffness Force in Nonlinear Piezoelectric Structures Based on Hilbert Transform. <i>Lecture Notes in Electrical Engineering</i> , 2022 , 584-596 | 0.2 | | |
| 14 | Adaptive Neural Network Control for Double-Pendulum Tower Crane Systems. <i>Communications in Computer and Information Science</i> , 2020 , 83-96 | 0.3 | | |
| 13 | A second-order output spectrum based method for detecting bolt-loosening fault in a satellite-like structure. <i>HKIE Transactions</i> , 2019 , 26, 157-165 | 2.9 | | |
| 12 | Parametric Characteristic Analysis. <i>Understanding Complex Systems</i> , 2015 , 53-63 | 0.4 | | |

- 11 Mapping from Parametric Characteristics to the GFRFs and Output Spectrum. *Understanding Complex Systems*, **2015**, 207-235 0.4
- 10 The Parametric Characteristics Based Output Spectrum Analysis. *Understanding Complex Systems*, **2015**, 113-131 0.4
- 9 Magnitude Bound Characteristics of Nonlinear Frequency Response Functions. *Understanding Complex Systems*, **2015**, 269-296 0.4
- 8 Output Frequency Characteristics of Nonlinear Systems. *Understanding Complex Systems*, **2015**, 31-52 0.4
- 7 The Alternating Series Approach to Nonlinear Influence in the Frequency Domain. *Understanding Complex Systems*, **2015**, 237-268 0.4
- 6 Nonlinear Characteristic Output Spectrum. *Understanding Complex Systems*, **2015**, 153-177 0.4
- 5 The Parametric Characteristics of Nonlinear Output Spectrum and Applications. *Understanding Complex Systems*, **2015**, 83-111 0.4
- 4 Determination of Nonlinear Output Spectrum Based on Its Parametric Characteristics: Some Theoretical Issues. *Understanding Complex Systems*, **2015**, 133-151 0.4
- 3 The Generalized Frequency Response Functions and Output Spectrum of Nonlinear Systems. *Understanding Complex Systems*, **2015**, 9-30 0.4
- 2 A X-Shaped Nonlinear Tuned Mass Damper with Multi-variable Optimization. *Lecture Notes in Electrical Engineering*, **2022**, 1062-1077 0.2
- 1 Nonlinear Restoring Force Subspace Identification of Negative Stiffness Nonlinear Oscillators **2022**, 379-389