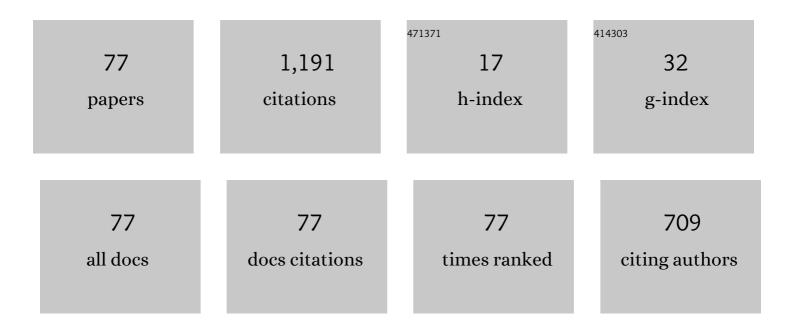
## **Xuping Zhang Zhang**

List of Publications by Year in descending order

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#	Article	lF	CITATIONS
1	A hybrid numerical method for vibration analysis of linear multibody systems with flexible components. Applied Mathematical Modelling, 2022, 101, 748-771.	2.2	12
2	Learning-based object detection and localization for a mobile robot manipulator in SME production. Robotics and Computer-Integrated Manufacturing, 2022, 73, 102229.	6.1	38
3	An intuitive representation and analysis of multiâ€rotor wind turbine whirling modes. Wind Energy, 2022, 25, 553-572.	1.9	1
4	Comparison of the Dynamic Performance of Planar 3-DOF Parallel Manipulators. Machines, 2022, 10, 233.	1.2	3
5	Interaction dynamics modeling and adaptive impedance control of robotic exoskeleton for adolescent idiopathic scoliosis. Computers in Biology and Medicine, 2022, 145, 105495.	3.9	4
6	Theoretical thermal-mechanical modelling and experimental validation of a novel 3D three-fingered electrothermal microgripper. Precision Engineering, 2022, 77, 205-219.	1.8	0
7	A Switchable Rigid-Continuum Robot Arm: Design and Testing. , 2022, , .		1
8	Digital Twin with Integrated Robot-Human/Environment Interaction Dynamics for an Industrial Mobile Manipulator. , 2022, , .		4
9	Dynamic Modeling and Digital Twin of a Harmonic Drive Based Collaborative Robot Joint. , 2022, , .		3
10	Optimum time-energy-jerk trajectory planning for serial robotic manipulators by reparameterized quintic NURBS curves. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 4382-4393.	1.1	18
11	Macro-to-micro positioning and auto focusing for fully automated single cell microinjection. Microsystem Technologies, 2021, 27, 11-21.	1.2	9
12	Vibration control of industrial robot arms by multi-mode time-varying input shaping. Mechanism and Machine Theory, 2021, 155, 104072.	2.7	36
13	Adaptive feedforward control of a collaborative industrial robot manipulator using a novel extension of the Generalized Maxwell-Slip friction model. Mechanism and Machine Theory, 2021, 155, 104109.	2.7	18
14	A novel methodology for analyzing modal dynamics of multi-rotor wind turbines. Journal of Sound and Vibration, 2021, 493, 115810.	2.1	19
15	Design, Fabrication, and Testing of a Novel 3D 3-Fingered Electrothermal Microgripper with Multiple Degrees of Freedom. Micromachines, 2021, 12, 444.	1.4	10
16	A Tutorial Review on Point Cloud Registrations: Principle, Classification, Comparison, and Technology Challenges. Mathematical Problems in Engineering, 2021, 2021, 1-32.	0.6	10
17	Fuzzy sliding mode variable structure control of a high-speed parallel PnP robot. Mechanism and Machine Theory, 2021, 162, 104349.	2.7	18
18	On critical aeroelastic modes of a tri-rotor wind turbine. International Journal of Mechanical Sciences, 2021, 204, 106525.	3.6	13

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19	A Nonlinear Mechanic Model of a Zebrafish Embryo under Microinjection. , 2021, , .		1
20	Theoretical Thermal-Mechanical Modelling and Experimental Validation of a Three-Dimensional (3D) Electrothermal Microgripper with Three Fingers. Micromachines, 2021, 12, 1512.	1.4	3
21	Automated manipulation of zebrafish embryos using an electrothermal microgripper. Microsystem Technologies, 2020, 26, 1823-1834.	1.2	17
22	Dynamics Parametrization and Calibration of Flexible-Joint Collaborative Industrial Robot Manipulators. Mathematical Problems in Engineering, 2020, 2020, 1-13.	0.6	6
23	Design and Simulation of A Novel Three-Dimensional Multi-Degree-Of-Freedom Electrothermal Microgripper. , 2020, , .		1
24	Control Strategy for a Developed Robotic Spine Exoskeleton. , 2020, , .		0
25	Comprehensive modeling and identification of nonlinear joint dynamics for collaborative industrial robot manipulators. Control Engineering Practice, 2020, 101, 104462.	3.2	39
26	Integrating Dynamics into Design and Motion Optimization of a 3-PRR Planar Parallel Manipulator with Discrete Time Transfer Matrix Method. Mathematical Problems in Engineering, 2020, 2020, 1-23.	0.6	9
27	Practical Control of a Cold Milling Machine using an Adaptive PID Controller. Applied Sciences (Switzerland), 2020, 10, 2516.	1.3	5
28	Review on the Development and Applications of Vibration Isolators. , 2019, , .		0
29	A Mechanic Model and Velocity Optimization of Cell Microinjection. , 2019, , .		1
30	A Novel Auto-Focusing Algorithm for Automated Cell Immobilization. , 2019, , .		0
31	A Novel Recognition Algorithm in 3D Point Clouds based for on Local Spherical Harmonics. , 2019, , .		1
32	A Tutorial Survey and Comparison of Impedance Control on Robotic Manipulation. Robotica, 2019, 37, 801-836.	1.3	84
33	Smooth online time-varying input shaping with fractional delay FIR filtering. Control Engineering Practice, 2019, 88, 21-37.	3.2	4
34	Automated Macro-Micro Manipulation for Robotic Microinjection with Computer Vision. , 2019, , .		0
35	Concept Design and Dynamic Modelling of a Fibre-Based Continuum Robot for Early Cancer Detection Using DT-TMM. Mechanisms and Machine Science, 2019, , 177-185.	0.3	3
36	Theoretical modal analysis and parameter study of Z-shaped electrothermal microactuators. Microsystem Technologies, 2018, 24, 3149-3160.	1.2	4

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37	Computationally efficient dynamic modeling of robot manipulators with multiple flexible-links using acceleration-based discrete time transfer matrix method. Robotics and Computer-Integrated Manufacturing, 2018, 49, 181-193.	6.1	30
38	Dynamic Modeling and Analysis of a Mobile Flexible Robot Arm. , 2018, , .		0
39	Experimental Study on the Life and Nonlinear Actuation Behaviors of V-shaped SU-8 Electrothermal Microactuators. , 2018, , .		2
40	Experimental Testing and Performance Comparisons between V - and Z-shaped Electrothermal Microactuators. , 2018, , .		1
41	Vibration Modes and Parameter Analysis of V-Shaped Electrothermal Microactuators. Shock and Vibration, 2018, 2018, 1-12.	0.3	3
42	Closed-form modelling and design analysis of V- and Z-shaped electrothermal microactuators. Journal of Micromechanics and Microengineering, 2017, 27, 015023.	1.5	34
43	Vibration Analysis of V-Shaped Beam Electrothermal Microactuators. , 2017, , .		2
44	A Model Compensation-Prediction Scheme for Control of Micromanipulation Systems With a Single Feedback Loop. IEEE/ASME Transactions on Mechatronics, 2017, 22, 1973-1982.	3.7	4
45	Dynamic modelling and analysis of V- and Z-shaped electrothermal microactuators. Microsystem Technologies, 2017, 23, 3775-3789.	1.2	36
46	Impedance Control of Robots: An Overview. , 2017, , .		20
47	An equivalent line-beam vibration model for frequency analysis of the V-and Z-shaped electrothermal microactuators. , 2017, , .		Ο
48	Vibration Analysis of U-Shaped Beam Electrothermal Microactuators. , 2017, , .		2
49	Structure and Design of Microgrippers: A Survey. , 2017, , .		2
50	Sensing and Intelligent Perception in Robotic Applications. Journal of Sensors, 2016, 2016, 1-1.	0.6	1
51	Dynamic electro-thermal modeling of V- and Z-shaped electrothermal microactuator. , 2016, , .		10
52	A comparison model of V- and Z-shaped electrothermal microactuators. , 2015, , .		26
53	Dynamic Modeling of Flexible Robot Manipulators: Acceleration-Based Discrete Time Transfer Matrix Method. Mechanisms and Machine Science, 2015, , 377-386.	0.3	2
54	A Comprehensive Analytical Model and Experimental Validation of Z-shaped Electrothermal Microactuators. Mechanisms and Machine Science, 2015, , 177-187.	0.3	13

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55	An optical tracker based robot registration and servoing method for ultrasound guided percutaneous renal access. BioMedical Engineering OnLine, 2013, 12, 47.	1.3	15
56	Controlled positioning of biological cells inside a micropipette. , 2012, , .		1
57	Controlled Aspiration and Positioning of Biological Cells in a Micropipette. IEEE Transactions on Biomedical Engineering, 2012, 59, 1032-1040.	2.5	65
58	Three-Dimensional Rotation of Mouse Embryos. IEEE Transactions on Biomedical Engineering, 2012, 59, 1049-1056.	2.5	98
59	Batch Transfer of Zebrafish Embryos Into Multiwell Plates. IEEE Transactions on Automation Science and Engineering, 2011, 8, 625-632.	3.4	14
60	Robotic ICSI (Intracytoplasmic Sperm Injection). IEEE Transactions on Biomedical Engineering, 2011, 58, 2102-2108.	2.5	141
61	Automated batch transfer of zebrafish embryos using a multi-degrees-of-freedom system. , 2011, , .		0
62	Automated cell manipulation: Robotic ICSI. , 2011, , .		5
63	MULTI-MODE VIBRATION CONTROL AND POSITION ERROR ANALYSIS OF PARALLEL MANIPULATOR WITH MULTIPLE FLEXIBLE LINKS. Transactions of the Canadian Society for Mechanical Engineering, 2010, 34, 197-213.	0.3	17
64	Experimental Implementation on Vibration Mode Control of a Moving 3-PRR Flexible Parallel Manipulator with Multiple PZT Transducers. JVC/Journal of Vibration and Control, 2010, 16, 2035-2054.	1.5	37
65	Investigation of axial forces on dynamic properties of a flexible 3-PRR planar parallel manipulator moving with high speed. Robotica, 2010, 28, 607-619.	1.3	13
66	Vibration suppression of a 3-PRR flexible parallel manipulator using input shaping. , 2009, , .		11
67	Coupling characteristics of rigid body motion and elastic deformation of a 3-PRR parallel manipulator withAflexible links. Multibody System Dynamics, 2009, 21, 167-192.	1.7	27
68	Vibration control of elastodynamic response of a 3-PRR flexible parallel manipulator using PZT transducers. Robotica, 2008, 26, 655-665.	1.3	28
69	Active Vibration Control of a 3-PRR Flexible Parallel Manipulator With PZT Actuators and Sensors. , 2008, , .		2
70	Dynamic modeling and active vibration control of a 3-PRR flexible parallel manipulator with PZT transducers. , 2008, , .		4
71	Effect of axial forces on lateral stiffness of a flexible 3-PRR parallel manipulator moving with high-speed. , 2008, , .		2
72	Study on the Effect of Elastic Deformations on Rigid Body Motions of a 3-PRR Flexible Parallel Manipulator. , 2007, , .		5

#	Article	IF	CITATIONS
73	Dynamic Modeling and Experimental Validation of a 3-PRR Parallel Manipulator with Flexible Intermediate Links. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 50, 323-340.	2.0	82
74	Structural Vibration Control of a Moving 3-PRR Flexible Parallel Manipulator With Multiple PZT Actuators and Sensors. , 2007, , .		1
75	Motion control of flexible robot manipulators via optimizing redundant configurations. Mechanism and Machine Theory, 2001, 36, 883-892.	2.7	21
76	A new spatial rotor beam element for modeling spatial manipulators with joint and link flexibility. Mechanism and Machine Theory, 2000, 35, 403-421.	2.7	16
77	An active control method for vibration reduction of a single-link flexible manipulator. Journal of Low Frequency Noise Vibration and Active Control, 0, , 146134842210949.	1.3	3