

# Yawu Wang

## List of Publications by Year in descending order

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docs citations

48  
times ranked

273  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stable Control Strategy for Planar Three-Link Underactuated Mechanical System. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1345-1356.	5.8	68
2	Position-Posture Control of a Planar Four-Link Underactuated Manipulator Based on Genetic Algorithm. IEEE Transactions on Industrial Electronics, 2017, 64, 4781-4791.	7.9	43
3	A fast stable control strategy based on system energy for a planar single-link flexible manipulator. Nonlinear Dynamics, 2018, 94, 615-626.	5.2	34
4	Control strategy based on Fourier transformation and intelligent optimization for planar Pendubot. Information Sciences, 2019, 491, 279-288.	6.9	27
5	A quick control strategy based on hybrid intelligent optimization algorithm for planar n-link underactuated manipulators. Information Sciences, 2017, 420, 148-158.	6.9	25
6	Continuous State Feedback Control Based on Intelligent Optimization for First-Order Nonholonomic Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2534-2540.	9.3	21
7	Dynamic Modeling and Tracking Control for Dielectric Elastomer Actuator With a Model Predictive Controller. IEEE Transactions on Industrial Electronics, 2022, 69, 1819-1828.	7.9	21
8	Multi-SVM based Dempster-Shafer theory for gesture intention understanding using sparse coding feature. Applied Soft Computing Journal, 2019, 85, 105787.	7.2	19
9	A simple and quick control strategy for a class of first-order nonholonomic manipulator. Nonlinear Dynamics, 2016, 85, 2261-2276.	5.2	17
10	A General Position Control Method for Planar Underactuated Manipulators With Second-Order Nonholonomic Constraints. IEEE Transactions on Cybernetics, 2021, 51, 4733-4742.	9.5	17
11	Position control for planar four-link underactuated manipulator with a passive third joint. ISA Transactions, 2019, 87, 46-54.	5.7	17
12	Position and Posture Control of Planar Four-Link Underactuated Manipulator Based on Neural Network Model. IEEE Transactions on Industrial Electronics, 2020, 67, 4721-4728.	7.9	17
13	Modeling of photo-responsive liquid crystal elastomer actuators. Information Sciences, 2021, 560, 441-455.	6.9	17
14	A quick position control strategy based on optimization algorithm for a class of first-order nonholonomic system. Information Sciences, 2018, 460-461, 264-278.	6.9	16
15	Motion planning and adaptive neural sliding mode tracking control for positioning of uncertain planar underactuated manipulator. Neurocomputing, 2019, 334, 197-205.	5.9	16
16	Virtual Model Reduction-based Control Strategy of Planar Three-link Underactuated Manipulator with Middle Passive Joint. International Journal of Control, Automation and Systems, 2021, 19, 29-39.	2.7	15
17	Effective position-posture control strategy based on switching control for planar three-link underactuated mechanical system. International Journal of Systems Science, 2017, 48, 2202-2211.	5.5	14
18	Control Strategy Based on Model Reduction and Online Intelligent Calculation for Planar n-Link Underactuated Manipulators. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 1046-1054.	9.3	14

#	ARTICLE	IF	CITATIONS
19	A novel position-posture control method using intelligent optimization for planar underactuated mechanical systems. <i>Mechanism and Machine Theory</i> , 2019, 140, 258-273.	4.5	13
20	Carbon nanotubes modified nanocomposites based on liquid crystalline elastomers. <i>Molecular Crystals and Liquid Crystals</i> , 2022, 732, 11-49.	0.9	12
21	Adaptive robust control for planar n-link underactuated manipulator based on radial basis function neural network and online iterative correction method. <i>Journal of the Franklin Institute</i> , 2018, 355, 8373-8391.	3.4	11
22	Dynamic modeling of dielectric elastomer actuator with conical shape. <i>PLoS ONE</i> , 2020, 15, e0235229.	2.5	11
23	A new control method for planar four-link underactuated manipulator based on intelligence optimization. <i>Nonlinear Dynamics</i> , 2019, 96, 573-583.	5.2	10
24	Dynamic modeling of dielectric elastomer actuators based on thermodynamic theory. <i>Mechanics of Advanced Materials and Structures</i> , 2022, 29, 1543-1552.	2.6	10
25	Position control with zero residual vibration for two degrees-of-freedom flexible systems based on motion trajectory optimization. <i>Information Sciences</i> , 2021, 575, 698-713.	6.9	10
26	Chaos-PSO-based Motion Planning and Accurate Tracking for Position-posture Control of a Planar Underactuated Manipulator with Disturbance. <i>International Journal of Control, Automation and Systems</i> , 2021, 19, 3511-3521.	2.7	9
27	Modelling and compound control of intelligently dielectric elastomer actuator. <i>Control Engineering Practice</i> , 2022, 126, 105261.	5.5	9
28	Iterative convergence control method for planar underactuated manipulator based on support vector regression model. <i>Nonlinear Dynamics</i> , 2020, 102, 2711-2724.	5.2	7
29	PSO-based nonlinear model predictive planning and discrete-time sliding tracking control for uncertain planar underactuated manipulators. <i>International Journal of Systems Science</i> , 2022, 53, 2075-2089.	5.5	7
30	Tracking control of dielectric elastomer actuators for soft robots based on inverse dynamic compensation method. <i>Information Sciences</i> , 2022, 583, 202-218.	6.9	6
31	Dynamic Modeling for Dielectric Elastomer Actuators Based on LSTM Deep Neural Network. , 2020, , .		5
32	Position Control of a Planar Four-Link Underactuated Manipulator. , 2018, , .		4
33	Continuous Control Strategy of Planar 3-Linkage Underactuated Manipulator Based on Broad Neural Network. <i>Actuators</i> , 2021, 10, 249.	2.3	4
34	Positioning control of liquid crystal elastomer actuator based on double closed-loop system structure. <i>Control Engineering Practice</i> , 2022, 123, 105136.	5.5	4
35	Effects of AC Coils Parameters on Transduction Efficiency of EMAT for Steel Plate Inspection. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-11.	1.1	3
36	Quick and Effective Position Control for Planar $n$ -link Underactuated Manipulators Based on Optimization Algorithm. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
37	Modeling Based on a Two-Step Parameter Identification Strategy for Liquid Crystal Elastomer Actuator Considering Dynamic Phase Transition Process. IEEE Transactions on Cybernetics, 2023, 53, 4423-4434.	9.5	3
38	Study of Soft Force and Displacement Sensor Based on Dielectric Elastomer. , 2020, , .		2
39	Active vibration suppression approach of flexible joint manipulator with dead zone and unmodeled dynamics*. , 2019, , .		1
40	Intelligent Control of Underactuated Mechanical System. Studies in Systems, Decision and Control, 2021, , 47-73.	1.0	1
41	Modeling and Tracking Control for Dielectric Elastomer Actuator with Sliding Mode Feedback Controller. , 2021, , .		1
42	A trajectory tracking control strategy based on finite element method for planar three-link underactuated manipulator. , 2017, , .		0
43	Control strategy based on differential evolution algorithm for planar second-order nonholonomic manipulator. , 2018, , .		0
44	Dynamic modeling for soft dielectric elastomer actuator considering different input frequencies and external loads. Journal of Intelligent Material Systems and Structures, 2022, 33, 1087-1100.	2.5	0
45	Dielectric Elastomer Intelligent Devices for Soft Robots. Studies in Systems, Decision and Control, 2021, , 311-339.	1.0	0
46	TRAJECTORY TRACKING CONTROL WITH SPECIFIED POSTURE FOR PLANAR FOUR-LINK REAL UNDERACTUATED MANIPULATOR. International Journal of Robotics and Automation, 2019, 34, .	0.1	0
47	Position and posture control for a planar underactuated manipulator based on model reduction and chained structure. Scientia Sinica Informationis, 2020, 50, 718-733.	0.4	0
48	Position control of planar three-link underactuated manipulator based on wavelet neural network model. , 2020, , .		0