Mingming Zhang

List of Publications by Year
in descending order

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67	920	471509	501196
papers	citations	17	28
		h-index	g-index

67	67	67	742
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effectiveness of robot-assisted therapy on ankle rehabilitation â€“ a systematic review. Journal of NeuroEngineering and Rehabilitation, 2013, 10, 30.	4.6	156
2	Adaptive Patient-Cooperative Control of a Compliant Ankle Rehabilitation Robot (CARR) With Enhanced Training Safety. IEEE Transactions on Industrial Electronics, 2018, 65, 1398-1407.	7.9	83
3	Reconfigurable workspace and torque capacity of a compliant ankle rehabilitation robot (CARR). Robotics and Autonomous Systems, 2017, 98, 213-221.	5.1	50
4	Adaptive Trajectory Tracking Control of a Parallel Ankle Rehabilitation Robot With Joint-Space Force Distribution. IEEE Access, 2019, 7, 85812-85820.	4.2	45
5	Linear Active Disturbance Rejection Control for Servo Motor Systems With Input Delay via Internal Model Control Rules. IEEE Transactions on Industrial Electronics, 2021, 68, 1077-1086.	7.9	40
6	Reviewing high-level control techniques on robot-assisted upper-limb rehabilitation. Advanced Robotics, 2018, 32, 1253-1268.	1.8	39
7	Toward Gait Symmetry Enhancement via a Cable-Driven Exoskeleton Powered by Series Elastic Actuators. IEEE Robotics and Automation Letters, 2022, 7, 786-793.	5.1	35
8	Towards Optimal Platform-Based Robot Design for Ankle Rehabilitation: The State of the Art and Future Prospects. Journal of Healthcare Engineering, 2018, 2018, 1-9.	1.9	27
9	A three-stage trajectory generation method for robot-assisted bilateral upper limb training with subject-specific adaptation. Robotics and Autonomous Systems, 2018, 105, 38-46.	5.1	24
10	Reviewing Clinical Effectiveness of Active Training Strategies of Platform-Based Ankle Rehabilitation Robots. Journal of Healthcare Engineering, 2018, 2018, 1-12.	1.9	24
11	Exploiting ultralow-frequency energy via vibration-to-rotation conversion of a rope-spun rotor. Energy Conversion and Management, 2020, 225, 113433.	9.2	22
12	Synchronous Position and Compliance Regulation on a Bi-Joint Gait Exoskeleton Driven by Pneumatic Muscles. IEEE Transactions on Automation Science and Engineering, 2020, 17, 2162-2166.	5.2	21
13	A robot-driven computational model for estimating passive ankle torque with subject-specific adaptation. IEEE Transactions on Biomedical Engineering, 2015, 63, 1-1.	4.2	20
14	A Flexible and Stretchable Bending Sensor Based on Hydrazine-Reduced Porous Graphene for Human Motion Monitoring. IEEE Sensors Journal, 2020, 20, 12661-12670.	4.7	19
15	Reviewing effectiveness of ankle assessment techniques for use in robot-assisted therapy. Journal of Rehabilitation Research and Development, 2014, 51, 517-534.	1.6	18
16	A Preliminary Study on Robot-Assisted Ankle Rehabilitation for the Treatment of Drop Foot. Journal of Intelligent and Robotic Systems: Theory and Applications, 2018, 91, 207-215.	3.4	18
17	Linear Active Disturbance Rejection Control for Two-Mass Systems Via Singular Perturbation Approach. IEEE Transactions on Industrial Informatics, 2022, 18, 3022-3032.	11.3	18
18	SSVEP-Based Brain-Computer Interface With a Limited Number of Frequencies Based on Dual-Frequency Biased Coding. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 760-769.	4.9	18

#	Article	IF	Citations
19	A robot-assisted bilateral upper limb training strategy with subject-specific workspace: A pilot study. Robotics and Autonomous Systems, 2020, 124, 103334.	5.1	14
20	A Feasibility Study of SSVEP-Based Passive Training on an Ankle Rehabilitation Robot. Journal of Healthcare Engineering, 2017, 2017, 1-9.	1.9	13
21	Bringing Psychological Strategies to Robot-Assisted Physiotherapy for Enhanced Treatment Efficacy. Frontiers in Neuroscience, 2019, 13, 984.	2.8	13
22	Fuzzy logic compliance adaptation for an assist-as-needed controller on the Gait Rehabilitation Exoskeleton (GAREX). Robotics and Autonomous Systems, 2020, 133, 103642.	5.1	13
23	Robot-assisted ankle rehabilitation for the treatment of drop foot: A case study. , 2016, , .		12
24	A Muscle Synergy-Driven ANFIS Approach to Predict Continuous Knee Joint Movement. IEEE Transactions on Fuzzy Systems, 2022, 30, 1553-1563.	9.8	12
25	Design and Interaction Control of a New Bilateral Upper-Limb Rehabilitation Device. Journal of Healthcare Engineering, 2017, 2017, 1-9.	1.9	11
26	Interactive Compliance Control of a Wrist Rehabilitation Device (WReD) with Enhanced Training Safety. Journal of Healthcare Engineering, 2019, 2019, 1-10.	1.9	11
27	Performance-Based Iterative Learning Control for Task-Oriented Rehabilitation: A Pilot Study in Robot-Assisted Bilateral Training. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 2031-2040.	3.8	11
28	Compliance adaptation of an intrinsically soft ankle rehabilitation robot driven by pneumatic muscles. , 2017, , .		10
29	Subject-specific compliance control of an upper-limb bilateral robotic system. Robotics and Autonomous Systems, 2020, 126, 103478.	5.1	10
30	Automated objective robot-assisted assessment of wrist passive ranges of motion. Journal of Biomechanics, 2018, 73, 223-226.	2.1	9
31	A virtual-reality tracking game for use in robot-assisted ankle rehabilitation. , 2014, , .		8
32	Characterization of Bimanual Cyclical Tasks From Single-Trial EEG-fNIRS Measurements. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 146-156.	4.9	8
33	Symmetric Convolutional and Adversarial Neural Network Enables Improved Mental Stress Classification From EEG. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 1384-1400.	4.9	8
34	Development of a Reconfigurable Wrist Rehabilitation Device with an Adaptive Forearm Holder. , 2018, , .		7
35	Predictive Active Disturbance Rejection Control for Servo Systems With Communication Delays Via Sliding Mode Approach. IEEE Transactions on Industrial Electronics, 2021, 68, 12679-12688.	7.9	7
36	A New Dynamic Modelling Algorithm for Pneumatic Muscle Actuators. Lecture Notes in Computer Science, 2014, , 432-440.	1.3	6

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37	A Robotic System to Deliver Multiple Physically Bimanual Tasks via Varying Force Fields. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2022, 30, 688-698.	4.9	6
38	A real-time computational model for estimating kinematics of ankle ligaments. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 835-844.	1.6	5
39	A linear actuator with an SMA clamping mechanism for dual-slider positioning. Microsystem Technologies, 2020, 26, 3885-3891.	2.0	5
40	Bilateral Asymmetry of Hand Force Production in Dynamic Physically-Coupled Tasks. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 1826-1834.	6.3	5
41	Electroencephalogram variability analysis for monitoring depth of anesthesia. Journal of Neural Engineering, 2021, 18, .	3.5	5
42	A novel assessment technique for measuring ankle orientation and stiffness. Journal of Biomechanics, 2015, 48, 3527-3529.	2.1	4
43	Automated robot-assisted assessment for wrist active ranges of motion. Medical Engineering and Physics, 2019, 71, 98-101.	1.7	4
44	Development of a Pneumatic Robotic System for Bilateral Upper Limb Interactive Training with Variable Resistance. , 2018, , .		3
45	Motion Model of Helical Springs under Vibrational Condition. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2012, 48, 78.	0.5	3
46	Linear active disturbance rejection control of servo systems via IMC principle with active damping and sliding mode techniques. ISA Transactions, 2022, 129, 663-672.	5.7	3
47	Nonlinear Analysis of Electroencephalogram Variability as a Measure of the Depth of Anesthesia. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	4.7	3
48	Model based open-loop posture control of a parallel ankle assessment and rehabilitation robot. , 2015, , .		2
49	Modeling and Experimental Verification of a Dual-slider Piezo-actuated Linear Motor. Instruments and Experimental Techniques, 2019, 62, 876-880.	0.5	2
50	A Walking Assistance Exoskeleton with Individual Control of Multiple Cables via a Single Actuator: Design and Evaluation. , 2021, , .		2
51	Article Commentary: An Assistance-as-Needed Control Paradigm for Robot-Assisted Ankle Rehabilitation. Rehabilitation Process and Outcome, 2014, 3, RPO.S12340.	1.6	1
52	Robot-Assisted Ankle Rehabilitation Training on an Adult With Cerebral Palsy: A Case Report. , 2015, , .		1
53	A New Trajectory Determination Method for Robot-Assisted Ankle Ligament Rehabilitation. , 2019, 2019, 5390-5393.		1
54	Waveform optimization of a two-axis smooth impact drive mechanism actuator. Journal of Intelligent Material Systems and Structures, 2021, 32, 156-168.	2.5	1

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55	Guest Editorial Special Issue on Artificial Intelligence in Automation for Healthcare Applications. IEEE Transactions on Automation Science and Engineering, 2021, 18, 401-404.	5.2	1
56	Robot-Assisted Haptic Rendering of Bilateral Physical Tasks via Physical Engine. , 2021, , .		1
57	Two-Stage Optimization of a Reconfigurable Asymmetric 6-DOF Haptic Robot for Task-Specific Workspace[*]. , 2021, , .		1
58	Short-Interval Priming Effects: An EEG Study of Action Observation on Motor Imagery. IEEE Transactions on Cognitive and Developmental Systems, 2023, 15, 1765-1772.	3.8	1
59	An in-vivo lateral ankle ligament strain behavior assessment technique for potential use in robot-assisted therapy. , 2014, 2014, 4022-5.		0
60	A Feasibility Study of Robot-Assisted Ankle Training Triggered by Combination of SSVEP Recognition and Motion Characteristics. , 2018, , .		0
61	Design and characterization of a T-shaped two-axis force sensor. Sensor Review, 2019, 39, 776-782.	1.8	0
62	Characterizing the Area of Significant Brain Activation Region to Spectrally-degraded Music: A Functional Near-Infrared Spectroscopy Study. , 2021, , .		0
63	Development of Impacting Fatigue Test Device of Stranded Wires Helical Springs. , 2011, , 239-242.		0
64	Experimental Research of Dynamic Parameters of Stranded-Wire Helical Springs under Impact Load. , 2011, , 113-118.		0
65	Pneumatic Resistance Control of an Upper Limb Active Rehabilitation System. Journal of Engineering and Science in Medical Diagnostics and Therapy, 2020, 3, .	0.5	0
66	Robust Internal Model Control for Motor Systems Based on Sliding Mode Technique and Extended State Observer. , 2020, , .		0
67	Improving Human-Robot Interaction Safety through Compliant Motion Constraints in Bilateral Upper Limb Rehabilitation. , 2021, , .		0